

CASE NOS. 18-4150 and 18-4119

UNITED STATES COURT OF APPEALS
FOR THE TENTH CIRCUIT

UNITED STATES OF AMERICA,

Plaintiff – Appellee,

v.

RAPOWER-3, LLC, INTERNATIONAL AUTOMATED SYSTEMS, INC.,
LTB1, LLC, R. GREGORY SHEPARD, NELDON JOHNSON,

Defendants – Appellants.

On Appeal from the United States District Court
For the District of Utah, Central Division
The Honorable Judge David Nuffer
D.C. No. 2:15-cv-00828-DN

APPELLANTS' APPENDIX VOL. V

Respectfully submitted,

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EXPERT REPORT OF NELDON JOHNSON

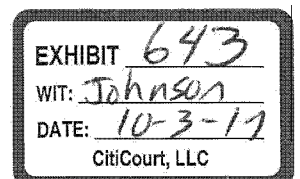
UNITED STATES OF AMERICA v. RAPOWER-3, LLC, et al.

Case No.: 2:15-0828-DN

I have prepared this expert report to explain the several components to the energy production system designed and operated by International Automated Systems, Inc. (hereafter "IAS System") as well as to critique the expert report submitted by the government's expert, Thomas R. Mancini. I make this report based on my own personal knowledge as well as the experience I have accumulated over the years as I have conceived, designed and engineered devices and methods in various fields of technology that have resulted in over 35 patent applications and 28 issued patents.

The IAS System is many things. Most relevant to these proceedings is a single component sold by RaPower3, the Fresnel lenses used in focusing the sun's rays for the production of useful heat energy. The explanation and application of the different components of the energy production system follow hereafter.

The most significant aspect of this report is that I have formed an opinion, based on practical trials, engineering, and research and development, that the Fresnel lens that are sold by RaPower3 are solar energy equipment specifically designed for and capable of generating useful heat that can be used for the generation of electricity and for other useful purposes, and is specifically designed for and capable of producing concentrated sunlight for use with concentrated photovoltaic cells in the production of electricity. Individuals who have purchased Fresnel lenses from RaPower3 have had those lenses placed into service in the research and development of the IAS System. That solar energy production system has been tested and enhanced over the past eight years or more to the point where the solar arrays using the Fresnel



lenses are being used in commercial applications. Some have produced electricity. All have produced heat above the 150 degree threshold.

All of the lens components sold have been manufactured and are on site at the Delta, Utah facilities. More than 200 solar towers are presently under construction and installation of thousands of lenses is already underway.

The Rankine Cycle

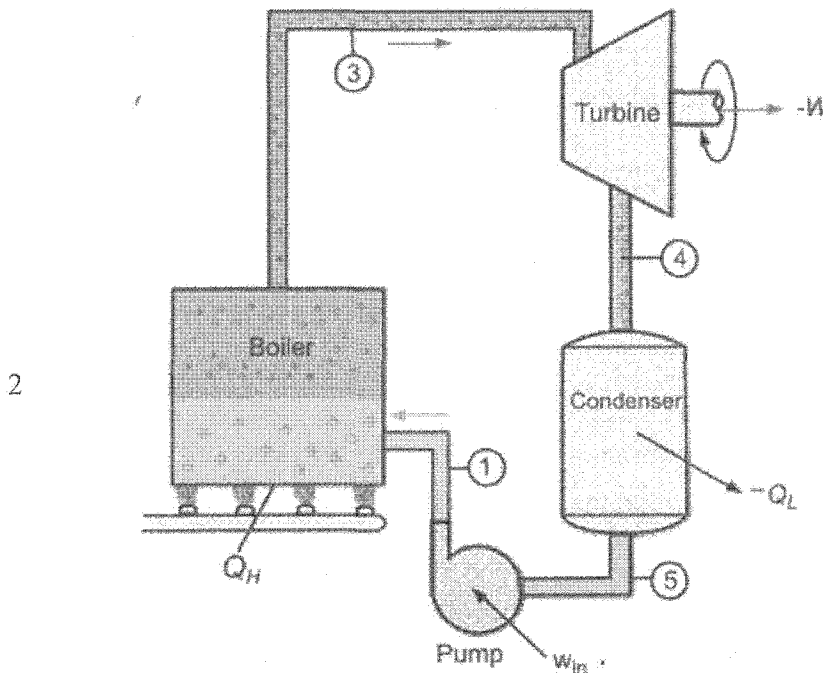
While the Rankine cycle is discussed in the Mancini Report, the discussion fails to adequately relate it to the total energy production system. He also does not make any link between his technical analysis of any of the components, the overall system, and his criticism of the likelihood of the future electrical production, on the one hand, to the issues involved in the dispute between Defendants, including IAS, and the government on the other hand. Accordingly, this response does not attempt to fully explain the Mancini Report deficiencies, but only to clarify some of his mistakes, errors, and omissions.

The Rankine cycle is the fundamental operating cycle of all power generation plants where an operating fluid is continuously evaporated and condensed. The selection of operating fluid depends mainly on the system's available temperature range. The Rankine cycle requires a liquid, such as oil or water, a turbine, a condenser, and a pump. In most systems (BUT NOT THE IAS SYSTEM), a boiler is also required to raise the temperature of the operating fluid to a sufficiently high temperature to create steam. Primarily the Rankine cycle was designed for the purpose of predicting the efficiencies of the fin-type turbines (NOT USED IN THE IAS SYSTEM). The fin-type turbine requires dry steam in order for it to perform at its peak capacities. That is because the turbine itself cannot tolerate wet steam where water might condense in the steam chambers of the turbine to disrupt, corrode and damage the fins.

Condensation of water in the steam chambers of the turbine destroys or damages the fins, reducing its tolerances and making it very inefficient to work with using anything but dry steam.

The Rankine cycle is used mainly in the modern steam turbine systems because of the lower cost in the energy required to create steam from the liquid stage, relative ease of maintenance, and range of temperature and pressure tolerance. Traditionally, the Rankine cycle operates in the following steps: (1) the operating liquid enters the boiler from the feed pump where it is heated to the saturation temperature; (2) the added energy in the boiler through increased temperature and/or pressure causes evaporation of the liquid until it is fully converted to saturated steam; (3) the vaporized steam is expanded in the turbine, thus producing work energy which may be converted to electricity. In practice, the expansion is limited by the temperature of the cooling medium and by the degradation (or erosion) of the turbine blades by liquid entrainment in the vapor stream as the process moves further into the two-phase region; then, (4) the vapor-liquid mixture leaving the turbine is condensed at low pressure, usually in a surface condenser using cooling water (in well designed and maintained condensers, the pressure of the vapor is well below atmospheric pressure, approaching the saturation pressure of the operating fluid at the cooling water temperature); (5) as the cycle nears full rotation, the pressure of the condensate is raised in the feed pump.¹

¹ RANKINE CYCLE, Muller-Steinhagen, Hans Michael Gottfried. DOI: 10.1615/AtoZ.r.rankine_cycle.
<http://www.thermopedia.com/content/1072/>



The efficiency of the Rankine cycle is measured at the output of the condenser and comparison is made to the energy requirement input into the system at the pump and boiler stages. For example, a pump requires energy to move the operational liquid into the boiler. The boiler adds energy in the form of heat and/or pressure to change the liquid to vapor to turn the turbines. Some of the kinetic energy of the vapor-driven turbine is lost when the steam is taken back out halfway through to re-pass through a regenerator and then pass back into the turbine. The condenser then cools at the backend of the steam while maintaining a vacuum on the turbine in order for it to maintain steam rather than condense into any form of liquid drops (usually water) because water in these fin type turbines, as mentioned above, will destroy the fans on the turbine. When the steam comes out of the turbine it has reached entropy, the state where the vapor no longer can produce force against the turbine blades. In other words, the more efficiently the vapor can be drawn out of the turbine, the higher the efficiency of the turbine

system. If vapor is cooled too quickly, energy is lost to condensation that should otherwise be used to produce force against the turbine blade. Early re-condensation may introduce back-pressure in the steam turbine which also lowers its efficiency. From there, the resulting liquid and condensing steam is pushed into a condenser where the latent heat is drawn out of the area liquid or out of the steam, and then this process turns the steam back to liquid as it proceeds back toward the pump to renew the cycle.

The energy required to convert the vapor back to liquid shows up as a loss of efficiency in the system. Therefore, it is an overall systemic efficiency drawback; whereas efficiency is lower the more energy you take out resulting in loss of efficiency in the turbine.

This is old technology, whose inventor lived in the early 1800s. Widely used and well understood, the cycle represents over two centuries of use of a system that needs to be vastly reconsidered and improved.

The Johnson Turbine

The Mancini Report provides an analysis of the Turbine Section based on information having nothing to do with the IAS system. That part of his report is entirely irrelevant. Nevertheless I provide the following response to help clarify what the IAS system does.

The inefficiency of the Rankine cycle is nowhere more apparent than in the turbine. It receives the most wear and, second only to the boiler, requires the most maintenance. As I contemplated the inefficiency of the fin-based turbine, I envisioned a turbine that requires almost no maintenance and would suffer very little operational wear and tear.

The Johnson turbine has been demonstrated numerous times since 2002-2003. There are four patents that have been issued on this turbine alone. The basic design, operation or function of the Johnson turbine has not changed since 2003. It is proven effective, efficient and easy to

reproduce. It is not an R&D system but a fully performing and operational mechanism. It is fully developed. Several videos on the RaPower3.com website demonstrate it in operation.²

The Johnson turbine employs the principles of rocket engine propulsion, which is entirely different than a fin-type turbine. There are many advantages in using a rocket engine design in the Johnson turbine system over a fin-type turbine. Fin-types are limited to the quality of the fin material, the nature of the operational liquid and quality of the steam cycle. The regular fin-type turbine requires the use of a boiler steam or generator to preheat and then to super heat the operational liquid in order to get the proper steam quality to release into the turbine blades.

The Johnson turbine uses superheated steam or superheated water, but does not necessarily require a boiler. Superheated steam or superheated water is heated in a pre-heating system or at constant volume by keeping the water in a liquid form. Water is pressurized to 3200 psi. This maintains the water under high pressure all the way through its heating cycle to a point which we call supercritical steam or supercritical water. This is where the pressurized water maintains its liquid form all the way through the heating system, despite being above the critical point.

The Johnson turbine does not require steam to drive blades. Testing was performed at BYU using dry steam and compared to the use of supercritical water. In the test, both the dry steam and the supercritical water were maintained at a temperature of 300°F at only 90 psi. The pounds of thrust per rocket nozzle using the supercritical water was substantially increased over using dry steam with the same mass flow. Because of the results obtained using supercritical water on the inlet side of the turbine, a system was developed that does not require the use of a

² <https://www.rapower3.com/turbine>

boiler system as temperature into the finless Johnson turbine does not need to exceed 450°F and 90 psi.

Removing the boiler system reduces expense, heat regulation, use of heavy steel and other heavy metal materials, system monitoring, and maintenance. This greatly reduces the cost associated with running the power generation system.

By relying on supercritical water, heated to a temperature of between 300°F and 450°F, the IAS power generating system only needs to use a pump and a heat exchanger to maintain appropriate heat and high pressure all the way through the system and to the Johnson turbine. The output is basically steam and water, depending upon the temperature of the saturated critical pressure steam that is driving the rocket nozzle.

Eliminating the boiler also improves the total efficiency of the system. The Johnson turbine allows the use of traditional heat exchangers to cool the steam back to liquid, which we have done in the original designs of the system. In the earliest designs we were using regular heat exchangers using pipes and other coolants to cool the steam back down to a liquid. With the new patented heat exchangers, US9,599,404 "Fluid Direct Contact Heat Exchange Apparatus and Method," we no longer need to use pipes to cool the system. It is many times smaller, many times less expensive, and requires less maintenance than the traditional pipe-type steam condenser.

The new heat exchangers are also well past the point of R&D. We have been using the new type of heat exchangers that can be used in a closed thermal system or that can be modified for heat storage or eliminated altogether in a water purification system. They are in full production.

The solar process heat generated in solar array using the Fresnel lenses can be captured and the resulting heat energy, in the form of BTUs generated by the solar lenses, can be regulated by the rate at which the heat source fluid is pumped through the solar receiver system. This heat is then transferred into the power generation system to heat the working fluid, normally water, that will be used to turn the turbine. The solar process heat raises the temperature of the working fluid and drives the turbine, providing for the generation of electricity. These two components (turbine and solar lens arrays) have been working for some time and we have been using them for research and development to make sure all the systems function adequately. Again, there will be improvements to the system to make the system more reliable, effective and more energy-efficient. However, they are very efficient even in the present format and they will work better than do traditional turbines without the limitations of the fin turbine system.

To get a more accurate picture of what we are talking about in a comparison between traditional turbines and the Johnson Turbine, it is better to be understood by seeing the contrast between the two and the limitations of each one in comparison.

The fin-type turbine requires a boiler system, which greatly increases the cost of the system. When you expand the gas in the first phase change in the boiler to get the latent heat in, there is a loss of energy efficiencies that is eliminated in the Johnson turbine, which requires lower temperature water.

The other problem in a fin-type turbine is the extreme wear in the fins. A change of a few thousandths of an inch due to wear on the fins is much like taking a few thousands of an inch off of a traditional piston-ring system in an automobile or diesel engine, which will greatly reduce engine compression and therefore the efficiency of the engine and reduce power output.

Maintenance and repair of the fins is a cost component that is completely eliminated in the Johnson turbine. There are no fins and very little exposure to wear and tear.

A third problem is the traditional Rankine cycle requires a cooling process on the back end to cool the operating fluid to about a 70°F temperature to maintain a vacuum in the turbine where it will draw the steam across the fins to generate power without allowing the steam to condense. It is a very complicated system, a very expensive system, and is difficult to maintain. The Johnson turbine does not need a cooling process as part of the turbine. The discharge from the rocket nozzles can be collected and merely subjected to a typical heat exchange condenser to recover and recycle the water. The heat collected by the condenser is merely recycled.

Lastly, a traditional turbine has about 48,000 hours of useful life before it starts to degrade to a point where efficiency is detrimental to the amount of power being produced. We expect to get many times the useful life expected in the Rankine cycle from the Johnson turbine.

The Advantage of Using Superheated Water in the Johnson Turbine

The Johnson turbine has several advantages over regular turbines and/or steam producing generators or turbines. This is because the Johnson turbine itself can use superheated water. The temperature of the water that can be used could be as high as 2000°F to produce energy. The Johnson turbine was developed using the same rocket science used to send rockets that have reliably gone to the moon, delivered satellites to orbit and delivered battle-field ordinance accurately and reliably. Steam powered rockets are very efficient engines with estimated efficiencies of around 75%, which is higher than other types of engines. They are much more efficient than burning fuel.

There has been a lot of research recently on how to develop a system that can use high temperature, high critical superheated water, to make energy. Presently, energy is being spent

when high temperature water has to be cooled in a system using traditional turbines. The Johnson turbine can use the superheated water directly, making it much more efficient and using all the energy available for creating electricity. The Johnson turbine's advantage is the wide range of temperatures that can be used. We have tested the Johnson turbine above 1000° and it worked very well at that temperature range.

Solar Energy Field using Fresnel Lenses

Mancini visited the Delta site and saw the solar towers and arrays first-hand. When he viewed the solar towers, Mancini said the Fresnel lens is equivalent to mirrors and can be a direct replacement. The Mancini Report involves a lengthy discussion of entirely irrelevant material, having no bearing on the issues to be decided by the court in this case. The solar energy equipment sold by RaPower3 is the Fresnel lens. None of the turbines, the heat exchangers, towers, the metal structures or other components of the IAS power generation plant are part of the solar energy systems for which solar tax credits or depreciation have been claimed by taxpayers. Therefore, the only component that ought to be at issue in this litigation is whether the Fresnel lenses sold to customers qualifies as solar energy equipment, not the actual workings of the turbine, heat exchangers or other components.

The primary purpose of the solar field is to produce BTUs that are sold for the purpose of heating water or other working fluid that goes to the turbines or to produce concentrated solar radiation that is sold for irradiating concentrated photovoltaic receivers. The turbines then use the heat, or the concentrated photovoltaic receivers use the concentrated solar radiation from the solar field, to generate electricity. However, the power production is by a separate power entity. Only the Fresnel lenses are being sold to the public. The customer leases their Fresnel lens to a leasing company, LTB O&M, LLC (or other appropriate entity(ies) yet to be formed). LTB1,

LLC or other entity will then install the lens into a frame and place the frame, with 33 other lenses, into a steel structure (a solar array) that is engineered to move the lens along the solar path to maximize exposure to the sun's rays. The steel structure itself is part of the IAS power plant operation, but is not part of the RaPower3 solar lens ownership.

Income is generated by LTB O&M, LLC (or other appropriate entity(ies) yet to be formed) when it sells the BTU's produced, or the concentrated solar radiation delivered to concentrated photovoltaic receivers, to the separate power company(ies) on the basis of what the separate power company(ies) conclude would be a fair price for the amount of BTUs produced or concentrated solar radiation produced by the leased Fresnel lenses.

Alternatively, the concentrated photovoltaic receivers may be owned and operated by LTB O&M, LLC (or other appropriate entity(ies) yet to be formed) and that separate power company(ies) may sell the power generated in a separate commercial transaction. Again, however, the photovoltaic cells are likewise not involved with this dispute. LTB O&M, LLC (or other appropriate entity(ies) yet to be formed), as the leasee of the solar lenses, has the freedom to implement the application of the solar arrays to maximize revenue with which to pay on its lease agreements.

There are limitless uses for which the Fresnel lenses can be put such as the traditional Rankine Cycle to produce superheated working fluid, solar process heat for buildings, greenhouses, reconcentrating sulfuric acid, and many other real applications and uses.

Each Fresnel lens is sold with a 35-year warranty. Should the lens become damaged, broken or taken out of commission, the warranty guarantees that a replacement lens will be put back into use for that customer. Other benefits to the purchaser of lenses is outlined and described in the purchase agreement so that further economic benefits will inure to a purchaser

that has put its trust in RaPower3 and been an early purchaser of lenses and been patient during the R&D phase of development.

Fresnel lenses are in full production. They are being produced by large plastic manufacturing companies that guarantee the lenses to be good for 20 years without being damaged by the sun. The manufacturer has assured that the plastic will maintain its clarity for at least 20 years of operation without a significant amount of degradation in the transfer of light through the system. The lenses themselves are produced in a very inexpensive way using a roll plastic system making the lenses very inexpensive to produce. The lens frames now are being produced in high quantities and arrays are being assembled.

A high-scale production system is now available to us. Sufficient quantities of lenses have been manufactured and delivered to the solar field to satisfy all customer requirements and future sales expectations. The towers themselves have been in production for at least 10 years and new solar arrays are being assembled at present, ready to be installed onto towers under construction at the Delta site. The towers will be equipped with a tracking system that automatically tracks the sun using mathematical formulas and hydraulic equipment. The tracking system is a stiff and stable way of moving the solar arrays affixed to the towers to maintain accurate positioning while tracking the sun. The tracking system is engineered for very slow incremental changes while maintaining the hydraulic pressure on both sides of the towers. This maintains accurate positioning and avoids jerky or sudden movements that might misalign or damage the solar array.

In paragraph #77 of his report, Mr. Mancini improperly cites a report by Murray and French who ran a laboratory simulated test on a mirror with an aluminum backing coated with

3mm of acrylic³ to criticize our assertion that the Fresnel lenses maintain their clarity and efficiency for up to 20+ years. However, the construct of the Murray and French experiment was not intended to be used as a benchmark for an application such as the RaPower3 Fresnel lens. In fact, this simulation diverges so far from the application of the Fresnel lenses that it would be akin to taking a blow torch to a rubber tire to formulate how much tread would wear on a bike tire after skidding 10 feet.

The Fresnel lenses are not coated onto or attached to a mirror of any kind. Instead, lenses are free of any backing. As a result, solar irradiance passes through the Fresnel lenses in a single pass.

In the Murray and French simulation, solar irradiance passes through the acrylic upon entry, then bounces off the mirror and passes back through the acrylic. Not only is the acrylic in Murray and French's simulation exposed to approximately 200% more solar irradiance than in our solar array application, there is no control data cited to delineate how much of the degradation in the acrylic might also be due to the coupled heat of the mirror and the associated degradation from expansion/contraction for that system which is absent from the clear Fresnel lenses used in the IAS application.

Perhaps a more appropriate report Dr. Mancini might have cited is "Operational, Reliability, and Maintenance Experience with Photovoltaic Concentrator Arrays," E.L. Burgess and B.D. Shafer, Sandia National Laboratories, Albuquerque, New Mexico, 1980. Unlike simulations by Murray and French, Burgess and Shafer rely upon real-world data from actual acrylic lenses in the field. According to Burgess and Shafer's report, "Analysis of acrylic sheet

³ Solar Radiation Durability of Materials, Components and Systems for Photovoltaics, Myles P. Murray, Roger H. Grench, at page 2 ("Assumptions").

exposed to 22 years of sunlight and blowing sand revealed only a 10% total degradation in specular transmittance. Thus, very stable Fresnel lenses are predicted.”

Mancini could also have referred to a United States Department of Energy NREL report, “Durability of Poly(Methyl Methacrylate) Lenses Used in Concentrating Photovoltaics”, Proc. SPIE, 2010, 7773-02, David C. Miller, Lynn M. Gedvilas, Bobby To , Cheryl E. Kennedy, and Sarah R. Kurtz. In this real-world study it was determined that with proper cleaning, degradation in solar transmittance for acrylic lenses is $\leq 0.3\%$ per year. This equates to only a 6% decrease after 22 years. This number aligns very closely to the Sandia National Laboratories' study. A much different result than the 22% reduction Dr. Mancini erroneously cites and tries to conform to his study.

Having worked at Sandia National Laboratories, it begs the question as to why Dr. Mancini, a government-paid expert witness, would omit two easily accessible studies—one by his former employer, Sandia National Laboratories and a second by the NREL. Both were government funded and reference applications far more congruent with the RaPower3 Fresnel lenses.

The Solar Receivers and Heat Exchangers for the Solar Energy Side

Initially, I should note again, that in responding to the Mancini Report in regard to the issues raised about the solar receivers and the heat exchangers, I do not intended to suggest that the solar receivers or the heat exchangers are relevant to any issue in the case. They clearly are not.

Secondly, it must also be noted that the current implementation and operation plan for the Delta, Utah solar site is for respective portions of the lenses, and the solar towers that they are installed in, to be devoted respectively to (a) power production utilizing a bladeless turbine under

one or more U.S. Patents 6,533,539 - 6,783,320 - 6,997,674 or 7,314,347; (b) power production utilizing a concentrated photovoltaic receiver, which may incorporate the photovoltaic technology of US Patent No. 7,705,560 to Johnson (Voltage Controller), US Patent Application No. 20150108939 to Johnson (Photovoltaic Controller), and US Patent Application No. 20160365730 to Johnson (Capacitor Enhanced Multi-element Photovoltaic Cell); (c) research and development, and testing, of various components for various embodiments of the IAS Solar Technology, including but not limited to bladeless turbine embodiments and concentrated photovoltaic embodiments; and (d) other beneficial uses of the concentrated solar radiation from the lenses and the towers they are installed in. It is anticipated that the Delta solar site will be a solar energy, multi-use site for the foreseeable future, wherein the lenses and towers are used for power production, component R&D and testing, and alternative use R&D.

Heat exchanger technology is highly advanced as heat exchangers have been utilized for numerous industrial, commercial, vehicular, mobile equipment and residential applications for decades. Existing, highly efficient heat exchangers are readily adaptable for use with water, oil, molten salt or various other fluids, of varying temperatures and pressures, as the heat source fluid, and for the transfer of heat from the heat source fluid to water as the working fluid of the Johnson turbine version of the IAS Solar System. These existing, highly efficient heat exchangers are readily available and readily adaptable for use with the Johnson turbine version of the IAS System.

In addition to the commercially available heat exchangers, it is anticipated that a portion of the solar towers will continue to be devoted to further testing of alternative heat exchange systems, such as the Fluid Direct Contact Heat Exchange Apparatus and Method of U.S. Patent No. 9,599,404 to Johnson.

As stated, the heat exchangers, whether commercially available exchangers or alternative exchangers such as that described in U.S. Patent No. 9,599,404 to Johnson, are adaptable to use with various types of heat source fluid, including water, oil and molten salt. Accordingly, the Johnson turbine version of the IAS System may utilize a variety of solar receivers that are capable of receiving the concentrated solar energy from the collectors of each tower, and transferring that energy to a heat source fluid. Overall efficiency, as well as other operational considerations, are considered in selecting the solar receiver and the heat source fluid. Testing has been completed with several types of solar receivers, including the Solar Energy Receiver disclosed in U.S. Patent No. 9,068,763 to Johnson. Other types of receivers that have been tested are described below.

The first is a vacuum tube system. In the vacuum tube system, the inside of the inner tube is coated first with copper and then a black absorber. This heat exchanger has been tested to be 95% absorbent and 98% holding (the ability to maintain temperature) for a period of time long enough to transfer the liquid for use in the Johnson turbine. The vacuum tube system is nonconductive because of its design. This system is currently built by other manufacturers, and to their specifications.

The next type of solar receiver is similar to the type used with parabolic lens collectors. For the parabolic collectors, a flat receiver panel is created out of several exchangers in a row, large enough to cover approximately 150% of the area needed to capture all of the solar energy concentrated by the parabolic lenses. The oversizing is used to accommodate for vibration added in the system by wind or other natural causes. For the Fresnel solar arrays, the heat exchangers tested operate in the same manner described in the previous paragraph. The solar receiver is made larger than needed to allow for any misalignment, vibration, or movement that takes place

on the system. While other systems require direct and precise focus of the solar energy on a very small area, with this type of receiver installed on the solar arrays, movement of six or seven inches is allowed without any loss of the efficiency of the solar receiver. By oversizing the receiver, lower accuracy is also tolerated for the solar energy focal point from the lens components, but still results in a 90% absorbency rate.

The most recently developed heat exchanger appears to be more economical than the two described above, in terms of production and material cost, yet continues to have similar efficiencies of the other two systems. This heat exchanger is created by using three layers of glass enclosing a container with a coiled piping system. The use of the layers of glass makes the container highly insulated (using between 3 and 6 cm of glass surrounding the containers, with a layer of gas with low conductivity). The three layers of glass sitting on top of this container provide a clear area for the solar energy to penetrate onto the piping of this type of heat exchanger. The first layer of glass is a very high temperature glass, having a temperature rating into the 1650° temperature range. It also then has linear metal infused throughout that will confine potential cracks to small areas of its surface and yet maintain the overall integrity of this layer of glass. Although the design of this system allows for the solar energy (less infrared rays) to penetrate directly through, in the event carbon material is deposited on the glass, the carbon material will absorb the concentrated solar energy and burn off. This design, in addition to the insulation properties, also has the secondary effect of eliminating bird waste (which is the most common environmental disturbance to the surface) by burning it off, acting as a protectant to the rest of the system. The space between the second two layers of glass is infused with gas having a very high coefficient of conductance (.0016 W per MK), which insulates the system and prevents most of the heat from being dissipated back through the glass. The coils and area inside the

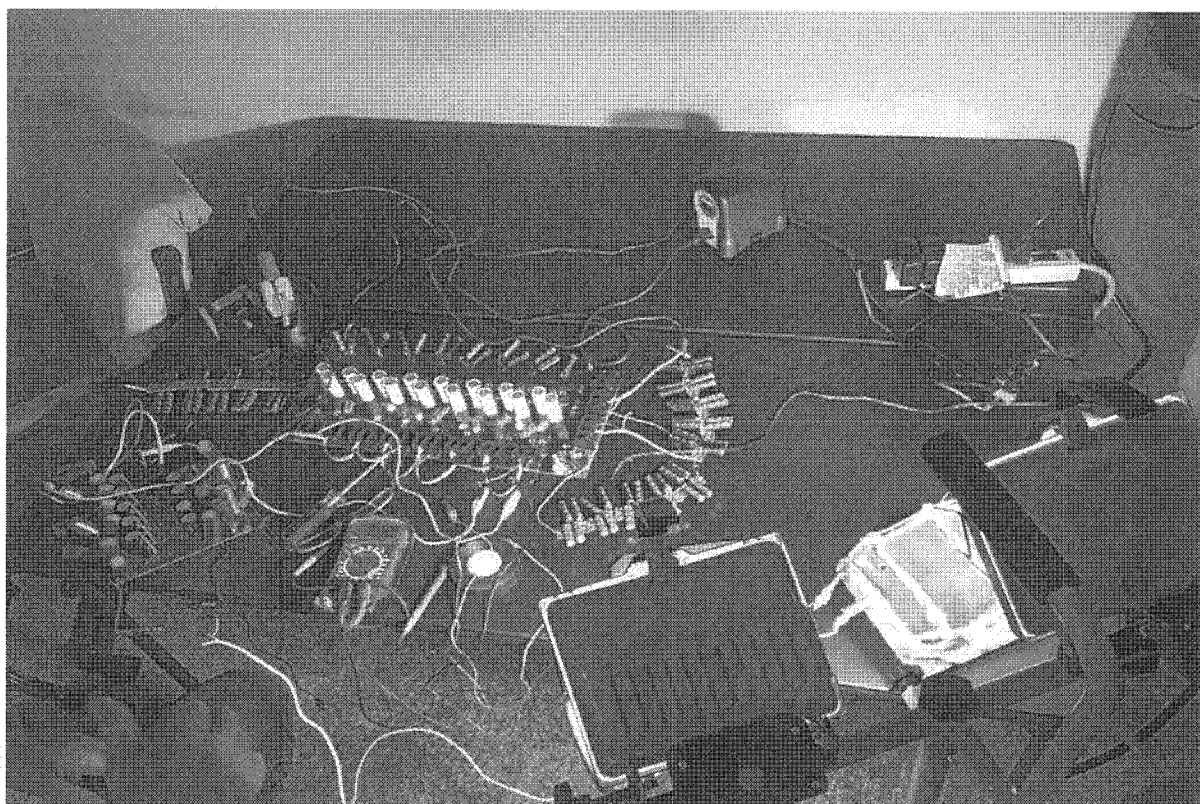
chamber itself are made larger than is required to allow for movement of between 6 and 8 inches of the focal point, but still create the necessary heat for the system. Molten salts, oil, and water can be used as the heat source fluid. The type and design of transfer piping used for this system also add to its efficiency. In each case, high quality metal piping is used. The variety used in each system depends upon the fluid used. In every case, the piping is coated with an insulation having a heat transfer coefficient of .0664 W per MK, and impenetrable by water. Further insulation in approximately 4 cm of thickness surrounds the heat pipe, which serves to reduce heat loss in the piping system to between 2% and 3% over 2,000 feet. This can also be placed underground where additional types of insulation can also be used to further reduce any heat loss. This system is approximately 95% heat absorbent. It retains between 95 to 98% of the heat put into the system, and loses a minimal amount of heat. These findings can be supported both by actual tests and is mathematically verifiable.

As stated above, the current implementation and operation plan includes the devotion of a portion of the lenses, and the towers they installed in, to continuing R&D and testing of solar system components. It is anticipated that ongoing R&D and testing will continue for each of the foregoing solar receivers and improved embodiments of each of them, as well as other types of solar receivers.

Solar Energy CPV Project

Beyond the heat-producing ability of the Fresnel lens to concentrate solar energy onto a receiver for the purpose of creating a temperature-based thermal PVR solar system, IAS is in the final stage of developing a converter system of concentrated thermal solar energy using the Fresnel lens system for a concentrated photovoltaic system ("CPV system"), which has been mentioned above.

This is a new application of the Fresnel lens system that we intend to use with our patented Photovoltaic Controller.⁴ Our design will separate out the chips and make them individually isolated from each other, allowing them to be used in a CPV system in a way that no other company has ever been able to achieve. The Fresnel lens system allows for a more diffused, less concentrated, focal point -- rendering the standard highly accurate focal point unnecessary.



The solar PV cells are connected, not in a parallel, nor are they connected in the usual serial format, each solar cell is completely independent and it is controlled by what we call a voltage control board, which makes it so that each solar cell is completely independent from every other solar cell. In the traditional solar cells that are being used today, they are connected

⁴ <https://www.rapower3.com/voltage-control>

in series because the solar cells themselves only put out a half a volt (.5 V). This is very low voltage and requires a large amount of current in order to produce any significant power to be produced by the silver solar cells themselves. This power, or current, has to then pass through each solar cell in which there is an internal resistance that will be lost and converted to unwanted (and unusable) heat by the system itself.

Our system reduces current inefficiencies in standard solar arrays because each cell produces to its maximum level of production independent of what the other solar cells are producing in the same system. We have demonstrated the feasibility of using the Fresnel lenses in this manner and generated electricity from the solar cells. The RaPower3 solar lenses can generate a 100-sun system where we are multiplying the ambient sunlight one hundred times. That means we can concentrate our solar PV material by nearly the same factor (100 times) that is used in a traditional one-sun system.

With a 5 W in a 6 x 6" solar cell, the Fresnel lens system is targeted to produce 1000 amps, and a half a volt from each cell. Traditional systems would require a wire almost an inch or 2 inches in diameter to carry that load. This would be very hard to connect, very expensive and would therefore not be very efficient.

However, our system has produced energy and a minimum of 24 V and we have tested it and have gone as high as 80 V. We now can produce at 2000 V if we couple it with our new voltage control board system.

Each of the solar lens arrays can and will produce electrical energy if we choose to use the concentrated photovoltaic systems to generate electricity using Fresnel lenses as they are presently in place.

Criticism of Thomas Mancini Conclusions

Mancini is wrong in his conclusion that the IAS system is non-functional and could never become commercially operational. Mancini is wrong because he does not understand the innovations in the IAS system and is measuring it against his existing knowledge and experience with photovoltaic systems using mirrors and refraction, as opposed to a solar lens array to superheat water for a uniquely designed and patented Johnson turbine.

In much the same way as an aeronautical engineer looking at a jet airplane concludes it will never fly because it doesn't have any propellers and therefore cannot create lift because all he knows is propellers, Mancini fails to appreciate the new technology and innovations that form the substance of the IAS system.

Conclusion 1: Status of the IAS Solar Dish Technology: The IAS Solar Dish Technology is in the research State 1 of development. The “technology” comprises separate component parts that do not work together in an operational solar energy system. The IAS Solar Dish Technology does not produce electricity or other useable energy from the sun.

Mancini wrongly concludes that the IAS Technology is nonfunctional, does not produce electricity or any useable energy from the sun, and therefore is in the research stage of development.

Mancini's position seems to be based only on personal dis-belief that the IAS System can be fully developed and commercialized. He ignores the fact that IAS has, with very minimal technical support, fully developed and patented (four U.S. patents) a process for manufacturing plastic Fresnel lens components which cures a multitude of problems experienced by pre-existing Fresnel lens technology, including particularly focus distortion and scatter, which makes the IAS system technically feasible. (See list of U.S. Patents attached as Exhibit “A”). The Fresnel lens used in the solar arrays have been successfully tested and confirmed to perform as intended. Thousands of these lenses are stockpiled in Delta, Utah, and are installed or ready to install.

Mancini also ignores the fact that IAS has, with very minimal technical support, conceived, designed, tested and constructed the solar array towers. The towers have been engineered to successfully provide for continuous and accurate solar tracking and for secure horizontal stowing of the arrays in the event severe wind conditions are experienced.

Mancini further ignores the fact IAS has with very minimal technical support, built a manufacturing operation that has been and is efficiently and cost-effectively manufacturing the solar collector tower components. To date, the components for hundreds of solar array towers have been manufactured and erection is well underway. Mancini has seen this himself, yet discounts the progress that is evident upon seeing the solar field in Delta, Utah.

Mancini further ignores the fact IAS has, with very minimal technical support, designed and tested several concentrated solar receivers to work in conjunction with the Fresnel lens solar energy production system, and that we are currently testing other receivers, including a concentrated sunlight photovoltaic receiver. I have obtained two U.S. Patents for concentrated solar receivers, and have another concentrated photovoltaic technology that is patent pending before the USPTO. I have also obtained a U.S. Patent for a voltage controller which provides for enhanced efficiency of the concentrated photovoltaic receiver.

While the IAS solar power production system could certainly employ one of many readily available heat exchange systems to interface between the solar receivers and the turbines, Mancini further ignores the fact IAS has designed, developed, fabricated, and tested several new heat exchange systems. In that process, we have obtained a U.S. Patent for a direct fluid contact heat exchange system and have other heat exchange technology that is patent pending before the USPTO. (See Exhibit "A")

Mancini further ignores the fact IAS holds the patent for the pressurized gas bladeless turbine and a pressurized fluid bladeless turbine. (See Exhibit "A") The pressurized fluid bladeless turbine eliminates the need for a boiler system and provides for flashing of the heated and pressurized water to steam at or near the nozzles of the bladeless turbine. The simplicity and inherent reliability of the turbine is a very important feature of the versions of the IAS system utilizing a turbine and a generator.

In short, Mancini's conclusion concerning the non-performance of the component parts of the IAS system and the status of the solar technology is untrue.

Conclusion 2: Commercialization Potential of the IAS Solar Dish Technology: The IAS Solar Dish Technology is not now nor will it ever be a commercial-grade dish solar system converting sunlight into electrical power or other useful energy.

Mancini wrongly concludes that the IAS system is not now nor will it ever be a commercial-grade solar energy production system converting sunlight into electrical power or other useful energy.

The IAS system has been selling for several years and so it is already commercialized and, therefore, by definition, commercial grade. Once again, Mancini is handicapped in his perspective much like a transportation expert scoffs at the idea of rubberized tires, since in his experience, only wooded spokes and steel rims are strong enough to support a load being carried over rough terrain. Innovation and technology shakes up the status quo. Mancini can't see the innovative nature of the IAS system because he is limited in his focus to exclusively regarding what has been done in the past.

Mancini compares the IAS system with the Fresnel lens and the Johnson turbine system to the Dish/Stirling Engine CSP system. (Mancini, paragraphs 21-31). He opines that because

the Dish/Stirling Engine CSP system has not been successfully commercialized, that the Johnson turbine system could not be successfully commercialized either.

The Mancini analysis is not applicable because: (1) the two power generations systems are substantially different and there is no relevant comparison; and, (2) there would be no DOJ action against RaPower3 if its power generation system had not already been successfully commercialized.

Mancini opines that a Johnson turbine suffers from the same limitation that has rendered the Dish/Stirling Engine CSP system economically unviable. (Mancini, paragraphs 29-31). However, Mancini fails to acknowledge that the Johnson turbine is significantly different than the Stirling engine. Mancini explains, “the Stirling engine is heated by the concentrated solar radiation from the dish. Inside the engine, the working fluid, typically hydrogen or helium, is contained and goes through a series of expansions, compression, and heat transfer processes resulting in mechanical work that turns the generator producing electricity.” (Mancini, paragraph 25). However, the Johnson turbine is a much simpler machine that relies on superheated water to turn the bladeless turbine resulting in low cost and low energy input to produce the resulting mechanical work. The Johnson turbine is not subject to the same cost concerns raised by Mancini, but rather is a low cost component to the IAS system and therefore Mancini’s criticism is not well placed.

Lastly, RaPower3 has been selling its system in the open market for many years. It has gained a distinctive level of commercial application; otherwise, the government would not be pursuing these claims. As far as commercial application, meaning sale of solar energy, IAS has been in the testing and development phase of operations through the present. It has taken millions of dollars and hundreds of thousands of hours of testing to get to where the IAS system

is today. However, the viability of the system is proven to be sound. It will produce solar based energy. Even Dr. Mancini concedes that each part of the IAS system has its merits, albeit as he claims each remains in early stage development.

The transition from stage one development to operational energy production is not a quantum leap, but is like hooking a trailer to a truck. It takes some planning and direction, but once lined up, will fall into place and be locked together to form a fully operational system.


Solar Energy Project

The greatest defect in the Mancini Report is its expansive coverage of things which are not involved in any dispute before the court. The only part of our project that can be regulated by the federal government is what is being sold for which tax payers are claiming a tax credit or a depreciation deduction. This means that the only items that the government can challenge are the lenses and the only question is whether the solar Fresnel lens are solar equipment that produce solar process heat or electric power.

It is my opinion that: 1) the lenses exist and are in full production - they are manufactured by a U.S. company and we have 34,000 lenses that have been bought at this particular time; 2) the lenses produce usable heat⁵ - this is not debatable and cannot be in dispute; and, 3) The lenses are part of a solar array that can be used to produce solar process heat and electric power. In conjunction with the solar arrays in which they are installed, the solar receivers, the heat exchangers, the Johnson Turbine, and the generators, and/or the CPV system, the Fresnel lenses can be used to create heat and electric power in a solar energy production system as explained herein.

⁵ <https://www.youtube.com/watch?v=mj83JwrUbzE>

This opinion is within a reasonable degree of scientific certainty and can be replicated and demonstrated with great ease. Every part of the system has proven scientific logic. However, perhaps the most important (and relevant) point is that RaPower3's Fresnel lenses set a board on fire while Mancini was visiting our site. They indisputably focus solar energy to produce heat.


Neldon Johnson
September 15, 2017

QUALIFICATIONS

Mr. Neldon P. Johnson is the founder of International Automated Systems Inc. and has been its President and Chief Executive Officer since 2001, he also serves as its Chairman of the Board. Mr. Johnson is the primary inventor of the Self-Check system, AFIM and the DWM technologies. He directs International Automated Systems's research and development program. Mr. Johnson has been developing the Self-Check system since 1983.

Mr. Johnson has taken training courses and has taught courses in electronics programming, microwave and wave switch programs. From 1965 to 1968, he served as an engineer at American Telephone and Telegraph, Inc. From 1975 to 1990, he was employed at Ream's Grocery Store and had management responsibilities for operations. He has real estate holdings, one of which was a supermarket of approximately 25,000 square feet in Salem, Utah. The supermarket was called U-Check. It was his time at U-Check that the self checkout system he invented was developed.

Mr. Johnson studied physics and mathematics at Brigham Young University in Provo, Utah and graduated from Utah Technical College's Electronics Technology Program in 1964.

Mr. Johnson, inventor of the IAS technologies, developed his patented bladeless turbine over a decade ago. He thought his turbine would match up well with concentrated solar power energy, but found that conventional polished glass mirror technology that reflected the sun's rays to a tiny focal point was expensive, inefficient and used too much water. He turned to a Fresnel lens where the sun's rays would refract while bending the sun's rays to a much larger focal point. He hooked up Fresnel lenses to his turbine and produced electricity. Thus, he had proof of concept.

Mr. Johnson has filed for patents to protect approximately 60 inventions. Attached hereto is a listing of patents that includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

PUBLICATIONS:

Mr. Johnson has not been published in the previous 10 years.

OTHER EXPERT TESTIMONY:

Mr. Johnson has not given testimony as an expert at trial or by deposition in the previous 4 years.

COMPENSATION:

Mr. Johnson is not being compensated for his expertise or his testimony in this case.

Patents by Inventor Neldon P. Johnson

Neldon P. Johnson has filed for patents to protect the following inventions. This listing includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

Fluid direct contact heat exchange apparatus and method

Patent number: 9599404

Abstract: A fluid direct contact heat exchanger having a contact chamber with a source fluid inlet provided by a source fluid inlet pipe, a source fluid outlet provided by a source fluid outlet pipe, a transfer fluid inlet provided by a transfer fluid inlet pipe, and a transfer fluid outlet provided by a transfer fluid outlet pipe. The source fluid and the transfer fluid have substantially different specific gravities and the source fluid and the transfer fluid are each insoluble in the other. The heat exchanger incorporates a heat transfer inducement element in the contact chamber which has a rotatable inducer shaft and a transfer accelerator element attached to the inducer shaft.

Type: Grant

Filed: August 27, 2013

Date of Patent: March 21, 2017

Assignee: Black Night Enterprises, INC.

Inventor: Neldon P. Johnson

CAPACITOR ENHANCED MULTI-ELEMENT PHOTOVOLTAIC CELL

Publication number: 20160365730

Abstract: A multi-element photovoltaic cell having two or more photovoltaic elements with an isolation layer interposed between all contiguous photovoltaic elements. Each photovoltaic element has an element front conductor and an element rear conductor which are in electrical contact with the photovoltaic layer of the photovoltaic element. The current from a respective photovoltaic element which is generated as incident solar radiation irradiates the photovoltaic cell, flows independently of the other photovoltaic elements to one or more capacitor banks controlled by a photovoltaic controller. The photovoltaic controller controls charging and discharging of element capacitors of the capacitor banks so as to optimize the efficiency of the photovoltaic cell.

Type: Application

Filed: June 12, 2015

Publication date: December 15, 2016

Inventor: Neldon P. Johnson

Folded stack segmented film capacitor

Patent number: 9418791

Abstract: A folded stack, segmented capacitor having a continuous capacitor base element which is folded two or more times, in one or more first stack folds and one or more second stack folds, to form three or more stack layers. Each of the stack layers has a primary electrode, which may be a continuous metallic film, and a segmented secondary electrode comprised of a plurality of secondary electrode elements electrically connected to a conductor element by a fuse element. The primary electrode is separated from the segmented secondary electrode and the plurality of secondary electrode elements by a continuous primary dielectric element. The secondary electrode elements are separated from the conductor element by a conductor insulation layer. The fuse elements pass through the conductor insulation layer from the secondary electrode elements to the conductor element.

Type: Grant

Filed: October 17, 2014

Date of Patent: August 16, 2016

Assignee: Black Night Enterprises, Inc.

Inventor: Neldon P. Johnson

WATER RECLAMATION SYSTEM AND METHOD

Publication number: 20150225256

Abstract: A water reclamation system and method incorporating a solar collector or other energy source, an energy source heat transfer element, a primary heat exchanger, a bladeless turbine, a collection chamber, a reclaimed water condenser, and a sludge scraper assembly. One or more pumps, control valves or other flow control devices may provide pressurization and control the flow of unheated transfer fluid, heated transfer fluid, raw water, and heated raw water. Embodiments vary from highly automated embodiments which incorporate an intricate system of sensors, control valves, pumps, and other components connected to and controlled by a control module which uses a complex algorithm to continuously and autonomously monitor and control the operation of all system components, to a totally manual system with no sensors, no

automated components, and no control module.

Type: Application

Filed: February 12, 2014

Publication date: August 13, 2015

Inventor: Neldon P. Johnson

SOLAR RECEIVER WITH DIRECT ABSORPTION MEDIA IRRADIATION

Publication number: 20150219364

Abstract: A solar receiver having a receiver vessel with a receiver chamber, a receiver cover with a receiver window, a receiver fluid inlet, a receiver fluid outlet, and an absorption media matrix in the receiver chamber. In operation of the solar receiver, incident solar radiation is transmitted through the receiver window to the absorption media matrix. Receiver fluid is circulated through the receiver chamber and the absorption media matrix. Heat is transferred from the absorption media matrix to the receiver fluid.

Type: Application

Filed: February 5, 2014

Publication date: August 6, 2015

Inventor: Neldon P. Johnson

Solar energy receiver

Patent number: 9068763

Abstract: Solar receiver having a receiver funnel, a solar absorber, and an absorber rotation drive mechanism. The receiver funnel has a funnel entrance and a funnel exit. The solar absorber may have a spherical shape and has an absorber rotation axis. The solar absorber is rotatably positioned in the funnel exit. The solar absorber has an internal absorber fluid chamber, an absorber fluid intake and an absorber fluid outlet. The absorber rotation drive mechanism provides for rotating the solar absorber about the absorber rotation axis.

Type: Grant

Filed: February 20, 2013

Date of Patent: June 30, 2015

Assignee: Black Night Enterprises, Inc.

Inventor: Neldon P. Johnson

PHOTOVOLTAIC CONTROLLER AND METHOD FOR PHOTOVOLTAIC ARRAY**Publication number:** 20150108939

Abstract: A photovoltaic controller for a photovoltaic array of photovoltaic cells. The photovoltaic controller incorporates a capacitor charge circuit electrically connected to each photovoltaic cell, cell capacitors connected to each photovoltaic cell by the capacitor charge circuit, capacitor charge switches, a capacitor discharge circuit electrically connected to each cell capacitor, an output circuit connected to the capacitor discharge circuit, capacitor discharge switches, a plurality of capacitor voltage sensors, and a photovoltaic control module in communication with the capacitor voltage sensors, the capacitor charge switches and the capacitor discharge switches.

Type: Application**Filed:** October 23, 2013**Publication date:** April 23, 2015**Inventor:** Neldon P. Johnson**APPARATUS AND METHOD FOR SECURED COMMERCIAL TRANSACTIONS****Publication number:** 20150088742

Abstract: A transaction security code database and a method and apparatus for generating the transaction security code database. The transaction security code database is comprised of multiple transaction security codes, each transaction security code constituting a transaction code generated based upon a transaction initiated by a user, which is appended to or linked to a security code which is based upon a biometric sensor code generated by a biometric sensor from a biometric presentation of a biometric feature of the user.

Type: Application**Filed:** September 26, 2013**Publication date:** March 26, 2015**Inventor:** Neldon P. Johnson**FLUID DIRECT CONTACT HEAT EXCHANGE APPARATUS AND METHOD****Publication number:** 20150060024

Abstract: A fluid direct contact heat exchanger having a contact chamber with a source fluid inlet provided by a source fluid inlet pipe, a source fluid outlet provided by a source fluid outlet pipe, a transfer fluid inlet provided by a transfer fluid inlet pipe, and a transfer fluid outlet provided by a transfer fluid outlet pipe. The source fluid and the

transfer fluid have substantially different specific gravities and the source fluid and the transfer fluid are each insoluble in the other. The heat exchanger incorporates a heat transfer inducement element in the contact chamber which has a rotatable inducer shaft and a transfer accelerator element attached to the inducer shaft.

Type: Application

Filed: August 27, 2013

Publication date: March 5, 2015

Inventor: Neldon P. Johnson

Facet deformation minimizing fresnel lens die roller and manufacturing method

Patent number: 8900500

Abstract: A die roller and method for making a die roller for use in manufacturing Fresnel lens angular segments or sub-segments, the die roller having one or more segment dies and curvilinear Fresnel facet dies, the Fresnel facet dies having a collar, a peak, and a base, the collar being sloped, the peak being rounded, and the base being rounded, according to a die algorithm based upon one or more facet factors, in order to reduce the deformation of Fresnel lens angular segments or sub-segments extruded with the die roller.

Type: Grant

Filed: January 8, 2011

Date of Patent: December 2, 2014

Assignee: Black Night Enterprises, Inc.

Inventor: Neldon P. Johnson

SOLAR ENERGY RECEIVER

Publication number: 20140230808

Abstract: Solar receiver having a receiver funnel, a solar absorber, and an absorber rotation drive mechanism. The receiver funnel has a funnel entrance and a funnel exit. The solar absorber may have a spherical shape and has an absorber rotation axis. The solar absorber is rotatably positioned in the funnel exit. The solar absorber has an internal absorber fluid chamber, an absorber fluid intake and an absorber fluid outlet. The absorber rotation drive mechanism provides for rotating the solar absorber about the absorber rotation axis.

Type: Application

Filed: February 20, 2013

Publication date: August 21, 2014

Inventor: Neldon P. Johnson

Apparatus and method for secured commercial transactions

Patent number: 8571996

Abstract: A transaction security code database and a method and apparatus for generating the transaction security code database. The transaction security code database is comprised of multiple transaction security codes, each transaction security code constituting a transaction code generated based upon a transaction initiated by a user, which is appended to or linked to a security code which is based upon a biometric sensor code generated by a biometric sensor from a biometric presentation of a biometric feature of the user.

Type: Grant

Filed: April 20, 2007

Date of Patent: October 29, 2013

Assignee: N.P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

FACET DEFORMATION MINIMIZING FRESNEL LENS DIE ROLLER AND MANUFACTURING METHOD

Publication number: 20120177768

Abstract: A die roller and method for making a die roller for use in manufacturing Fresnel lens angular segments or sub-segments, the die roller having one or more segment dies and curvilinear Fresnel facet dies, the Fresnel facet dies having a collar, a peak, and a base, the collar being sloped, the peak being rounded, and the base being rounded, according to a die algorithm based upon one or more facet factors, in order to reduce the deformation of Fresnel lens angular segments or sub-segments extruded with the die roller.

Type: Application

Filed: January 8, 2011

Publication date: July 12, 2012

Applicant: N. P. JOHNSON FAMILY LIMITED PARTNERSHIP

Inventor: Neldon P. Johnson

SYSTEM AND METHOD FOR SECURED VOTING TRANSACTIONS

Publication number: 20120037701

Abstract: A secured electronic system and method for taking and counting votes. A

database of unique ballot security codes, each ballot security code consisting of a ballot code representing the ballot selections of a voter and a security code derived from sensing with a biometric sensor a biometric presentation of a biometric feature of the voter. Each ballot security code is checked before entry into the database to verify that the security code component is not within a voter template of the security code component for any prior ballot security code, to prevent multiple votes being cast by any voter. Recounts are validated by verifying the uniqueness of the security code component of each ballot security code and verifying that each security code is not within a voter template of any other security code. Each ballot security code may also be checked against a registration data base thereby verifying that the voter is registered.

Type: Application

Filed: October 31, 2011

Publication date: February 16, 2012

Inventor: Neldon P. Johnson

System and method for secured voting transactions

Patent number: 8047435

Abstract: A secured electronic system and method for taking and counting votes. A database of unique ballot security codes, each ballot security code consisting of a ballot code representing the ballot selections of a voter and a security code derived from sensing with a biometric sensor a biometric presentation of a biometric feature of the voter. Each ballot security code is checked before entry into the database to verify that the security code component is not within a voter template of the security code component for any prior ballot security code, to prevent multiple votes being cast by any voter. Recounts are validated by verifying the uniqueness of the security code component of each ballot security code and verifying that each security code is not within a voter template of any other security code. Each ballot security code may also be checked against a registration data base thereby verifying that the voter is registered.

Type: Grant

Filed: January 31, 2007

Date of Patent: November 1, 2011

Assignee: N.P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

Presnel lens angular segment manufacturing apparatus and method

Patent number: 7789651

Abstract: A roller extruder for manufacturing Fresnel lens angular segments from raw plastic, the roller extruder having a blank roller and a die roller positioned a desired roller clearance from the blank roller, the die roller having two peripheral lens dies with an angular displacement between the lens dies increasing linearly from a die junction at the inside roller edge to approximately one hundred eighty degrees at the outside roller edge, and the die roller having peripheral Fresnel facet dies.

Type: Grant

Filed: July 11, 2007

Date of Patent: September 7, 2010

Assignee: N. P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

Fresnel lens angular segment manufacturing apparatus and method

Patent number: 7789650

Abstract: A roller extruder for manufacturing Fresnel lens angular segments from raw sheet plastic, the roller extruder having a blank roller and a die roller positioned a desired roller clearance from the blank roller, the die roller having two peripheral lens dies with an angular displacement between the lens dies increasing linearly from a die junction at the inside roller edge to approximately one hundred eighty degrees at the outside roller edge, and the die roller having peripheral Fresnel facet dies.

Type: Grant

Filed: December 22, 2006

Date of Patent: September 7, 2010

Assignee: N.P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

Fresnel lens angular segment manufacturing apparatus and method

Patent number: 7789652

Abstract: A roller extruder for manufacturing Fresnel lens angular segments from raw plastic, the roller extruder having a blank roller and a die roller positioned a desired roller clearance from the blank roller, the die roller having two peripheral lens dies with an angular displacement between the lens dies increasing linearly from a die junction at the inside roller edge to approximately three hundred sixty degrees at the outside roller edge, and the die roller having peripheral Fresnel facet dies.

Type: Grant

Filed: December 24, 2007

Date of Patent: September 7, 2010

Assignee: N.P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

Voltage controller

Patent number: 7705560

Abstract: A voltage controller having an input distribution network with imbedded input switches, a number of charge storage elements such as capacitors, an output distribution network with imbedded output switches, and a switch actuator which controls the input switches and output switches to provide for the controlled charging and discharging of the charge storage elements.

Type: Grant

Filed: August 15, 2006

Date of Patent: April 27, 2010

Assignee: N. P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

Magnetic transmission

Patent number: 7449807

Abstract: A magnetic transmission having an input shaft and an output shaft with two or more gear assemblies, each gear assembly having an input sprocket affixed to the input shaft, an output armature with peripheral electromagnets affixed to the output shaft, a transfer drum concentric with the output armature and having electromagnets inset from the inside surface of the transfer drum and a drum sprocket on the periphery of the transfer drum, and a transfer chain engaging the input sprocket and the drum sprocket. A gear assembly actuator is used to select and energize a desired gear assembly. A hysteresis clutch can also be used in lieu of the output armature and the transfer drum.

Type: Grant

Filed: February 9, 2006

Date of Patent: November 11, 2008

Assignee: N.P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

Patents by Inventor Neldon P. Johnson

Neldon P. Johnson has filed for patents to protect the following inventions. This listing includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

Apparatus and method for secured commercial transactions

Publication number: 20080262973

Abstract: A transaction security code database and a method and apparatus for generating the transaction security code database. The transaction security code database is comprised of multiple transaction security codes, each transaction security code constituting a transaction code generated based upon a transaction initiated by a user, which is appended to or linked to a security code which is based upon a biometric sensor code generated by a biometric sensor from a biometric presentation of a biometric feature of the user.

Type: Application

Filed: April 20, 2007

Publication date: October 23, 2008

Inventor: Neldon P. Johnson

System and method for secured voting transactions

Publication number: 20080184037

Abstract: A secured electronic system and method for taking and counting votes. A database of unique ballot security codes, each ballot security code consisting of a ballot code representing the ballot selections of a voter and a security code derived from sensing with a biometric sensor a biometric presentation of a biometric feature of the voter. Each ballot security code is checked before entry into the database to verify that the security code component is not within a voter template of the security code component for any prior ballot security code, to prevent multiple votes being cast by any voter. Recounts are validated by verifying the uniqueness of the security code component of each ballot security code and verifying that each security code is not within a voter template of any other security code. Each ballot security code may also be checked against a registration data base thereby verifying that the voter is registered.

Type: Application

Filed: January 31, 2007

Publication date: July 31, 2008

Inventor: Neldon P. Johnson

Fresnel lens angular segment manufacturing apparatus and method

Publication number: 20080150189

Abstract: A roller extruder for manufacturing Fresnel lens angular segments from raw plastic, the roller extruder having a blank roller and a die roller positioned a desired roller clearance from the blank roller, the die roller having two peripheral lens dies with an angular displacement between the lens dies increasing linearly from a die junction at the inside roller edge to approximately one hundred eighty degrees at the outside roller edge, and the die roller having peripheral Fresnel facet dies.

Type: Application

Filed: July 11, 2007

Publication date: June 26, 2008

Inventor: Neldon P. Johnson

Fresnel lens angular segment manufacturing apparatus and method

Publication number: 20080150175

Abstract: A roller extruder for manufacturing Fresnel lens angular segments from raw sheet plastic, the roller extruder having a blank roller and a die roller positioned a desired roller clearance from the blank roller, the die roller having two peripheral lens dies with an angular displacement between the lens dies increasing linearly from a die junction at the inside roller edge to approximately one hundred eighty degrees at the outside roller edge, and the die roller having peripheral Fresnel facet dies.

Type: Application

Filed: December 22, 2006

Publication date: June 26, 2008

Inventor: Neldon P. Johnson

Fresnel lens angular segment manufacturing apparatus and method

Publication number: 20080150179

Abstract: A roller extruder for manufacturing Fresnel lens angular segments from raw plastic, the roller extruder having a blank roller and a die roller positioned a desired

roller clearance from the blank roller, the die roller having two peripheral lens dies with an angular displacement between the lens dies increasing linearly from a die junction at the inside roller edge to approximately three hundred sixty degrees at the outside roller edge, and the die roller having peripheral Fresnel facet dies.

Type: Application

Filed: December 24, 2007

Publication date: June 26, 2008

Inventor: Neldon P. Johnson

Voltage controller

Publication number: 20080054327

Abstract: A voltage controller having an input distribution network with imbedded input switches, a number of charge storage elements such as capacitors, an output distribution network with imbedded output switches, and a switch actuator which controls the input switches and output switches to provide for the controlled charging and discharging of the charge storage elements.

Type: Application

Filed: August 15, 2006

Publication date: March 6, 2008

Inventor: Neldon P. Johnson

Pressurized fluid bladeless turbine engine with opposing fluid intake assemblies

Patent number: 7314347

Abstract: A bladeless pressurized fluid turbine engine having a bladeless turbine, internal, concentric or circumferential shaft fluid ways which transmit pressurized gas to the turbine, and a pair of opposing pressurized fluid intake assemblies. Each intake assembly has a fixed outer housing, two or more shaft seals sealing between the shaft and the outer housing forming fluid supply chambers between adjacent shaft seals, and a pair of shaft bearings bearing between the shaft and the outer housing. The outer housing has one or more fluid intake ports for each fluid supply chamber and each shaft fluid way has a shaft fluid intake which is hydraulically connected to a fluid supply chamber.

Type: Grant

Filed: October 7, 2004

Date of Patent: January 1, 2008

Assignee: N.P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

Pressurized fluid turbine engine

Patent number: 6997674

Abstract: A bladeless pressurized fluid turbine engine having a bladeless turbine, internal, concentric or circumferential shaft fluid ways which transmit pressurized gas to the turbine, and a pressurized fluid intake assembly. The intake assembly has a fixed outer housing, two or more shaft seals sealing between the shaft and the outer housing forming fluid supply chambers between adjacent shaft seals, and a pair of shaft bearings bearing between the shaft and the outer housing. The outer housing has one or more fluid intake ports for each fluid supply chamber and each shaft fluid way has a shaft fluid intake which is hydraulically connected to a fluid supply chamber.

Type: Grant

Filed: May 4, 2004

Date of Patent: February 14, 2006

Assignee: N. P. Johnson Family Limited Partnership

Inventor: Neldon P. Johnson

Pressurized gas turbine engine with electrothermodynamic enhancement

Patent number: 6783320

Abstract: Pressurized gas turbine engine with efficiency enhanced by an electrothermodynamic power convertor. The turbine has peripheral nozzles which are supplied with pressurized gas or pressurized liquid by internal nozzle gas ways. Pressurized liquid is flashed by the nozzles. The electrothermodynamic power convertor has a collector plate which envelopes the turbine engine expansion chamber and a charged screen which is positioned radially between the gas nozzles and the collector plate. Collector plate insulation is affixed between the collector plate and the walls of the expansion chamber.

Type: Grant

Filed: March 18, 2003

Date of Patent: August 31, 2004

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

Pressurized gas turbine engine with electrothermodynamic enhancement

Publication number: 20040005214

Abstract: Pressurized gas turbine engine with efficiency enhanced by an electrothermodynamic power convertor. The turbine has peripheral nozzles which are supplied with pressurized gas or pressurized liquid by internal nozzle gas ways. Pressurized liquid is flashed by the nozzles. The electrothermodynamic power convertor has a collector plate which envelops the turbine engine expansion chamber and a charged screen which is positioned radially between the gas nozzles and the collector plate. Collector plate insulation is affixed between the collector plate and the walls of the expansion chamber.

Type: Application

Filed: March 18, 2003

Publication date: January 8, 2004

Inventor: Neldon P. Johnson

Shelf pricing display apparatus

Patent number: 6624757

Abstract: An electronic display strip is attached to the shelf front of retail shelves, each shelf having an address code assigned through a control computer. Display fields of variable locations and lengths within each display strip are assigned to each product on a shelf through the control computer. Shelf and display field address codes, product information and product price information are transmitted on a continuous or intermittent basis by the control computer through a communications link to signal processors at each display strip. A control circuit for the display strip stores the information in a display memory and energizes the display field matching the display field address code for the product, thereby displaying the product information and product price in the display field.

Type: Grant

Filed: April 12, 2000

Date of Patent: September 23, 2003

Inventor: Neldon P. Johnson

Pressurized gas turbine engine

Patent number: 6533539

Abstract: A pressurized gas turbine engine is disclosed which utilizes a new turbine design. Pressurized gas is supplied by nozzle gas ways in the turbine to gas nozzles affixed to the perimeter of the turbine. The gas nozzles may be recessed in the turbine

perimeter or extend from the turbine perimeter. The gas nozzles may be equipped with gas exit cones to enhance the efficiency of the nozzles. The axis of the nozzles have an oblique angle with the direction of rotation of the turbine. Pressurized gas is supplied to the nozzle gas ways through one or more shaft gas ways in the turbine shaft, or is supplied through engine gas ports in the front wall of the turbine engine to gas supply zones which are hydraulically separated by seal rings on the front face of the turbine, each gas supply zone being hydraulically connected to one or more nozzle gas ways.

Type: Grant

Filed: March 21, 2001

Date of Patent: March 18, 2003

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

PRESSURIZED GAS TURBINE ENGINE

Publication number: 20030049119

Abstract: A pressurized gas turbine engine is disclosed which utilizes a new turbine design. Pressurized gas is supplied by nozzle gas ways in the turbine to gas nozzles affixed to the perimeter of the turbine. The gas nozzles may be recessed in the turbine perimeter or extend from the turbine perimeter. The gas nozzles may be equipped with gas exit cones to enhance the efficiency of the nozzles. The axis of the nozzles have an oblique angle with the direction of rotation of the turbine. Pressurized gas is supplied to the nozzle gas ways through one or more shaft gas ways in the turbine shaft, or is supplied through engine gas ports in the front wall of the turbine engine to gas supply zones which are hydraulically separated by seal rings on the front face of the turbine, each gas supply zone being hydraulically connected to one or more nozzle gas ways.

Type: Application

Filed: March 21, 2001

Publication date: March 13, 2003

Inventor: Neldon P. Johnson

Fingerprint sensor and method

Patent number: 6444969

Abstract: A device for sensing and digitizing a fingerprint from a subject finger comprising a prism, a pixilated LED array affixed to the bottom surface of the prism and providing for the internal illumination, with a plurality of sub-beams, of the contact surface where the finger of the subject is pressed on the top surface of the prism, and a

photoelectric sensor to detect the sub-beam radiation reflected from the fingerprint valley points. A sensor lens may also be used for focusing the sub-beam radiation on the sensor. A lens wafer may be affixed between the prism and the LED array for focusing the radiation from each LED on its corresponding illumination point on the contact surface. The fingerprint ridge contact points do not reflect incident sub-beam radiation.

Type: Grant

Filed: January 26, 2001

Date of Patent: September 3, 2002

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

Fingerprint sensor and method

Publication number: 20020018584

Abstract: A device for sensing and digitizing a fingerprint from a subject finger comprising a prism, a pixilated LED array affixed to the bottom surface of the prism and providing for the internal illumination, with a plurality of sub-beams, of the contact surface where the finger of the subject is pressed on the top surface of the prism, and a photoelectric sensor to detect the sub-beam radiation reflected from the fingerprint valley points. A sensor lens may also be used for focusing the sub-beam radiation on the sensor. A lens wafer may be affixed between the prism and the LED array for focusing the radiation from each LED on its corresponding illumination point on the contact surface. The fingerprint ridge contact points do not reflect incident sub-beam radiation.

Type: Application

Filed: January 26, 2001

Publication date: February 14, 2002

Inventor: Neldon P. Johnson

Fingerprint sensing device and method

Patent number: 6255641

Abstract: A device for sensing and digitizing a fingerprint from a subject finger comprising a prism, a pixilated illuminating radiation source such as a surface-emitting laser or a radiation source and a LCD affixed to the bottom surface of the prism and providing for the internal illumination, with a plurality of sub-beams, of the contact surface where the finger of the subject is pressed on the top surface of the prism, a photoelectric sensor to detect the sub-beam radiation reflected from the fingerprint valley points, and a lens for focusing the sub-beam radiation on the sensor. The

fingerprint ridge contact points do not reflect incident sub-beam radiation. A computer can provide for sequential emission of the sub-beams so that a single cell photoelectric sensor can be used to detect the reflected sub-beams or a multiple cell photoelectric sensor can be used, with each cell corresponding to a particular sub-beam. Reflected sub-beam radiation corresponds to a fingerprint valley point.

Type: Grant

Filed: November 19, 1999

Date of Patent: July 3, 2001

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

Signal demodulation method and apparatus

Patent number: 6236691

Abstract: A method and apparatus for separating multiple frequency information signals. This invention provides a method and apparatus for separating a communications signal, which is comprised of multiple component information waves of distinct frequencies, into its component waves for demodulation. The extraction of the component information waves is accomplished by determining the mid-cycle zero crossing points of the component information waves by reference to a reference wave, determining the amplitude of the combined wave at these zero crossing points and generating amplitude equations for each of these zero crossing points. These amplitude equations are solved to determine the amplitude coefficients of the component information waves, thereby extracting the transmitted information.

Type: Grant

Filed: March 16, 1999

Date of Patent: May 22, 2001

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

Fingerprint sensing apparatus and method

Patent number: 6191410

Abstract: A device for sensing and digitizing a fingerprint from a subject finger comprising a prism, a pixilated illuminating radiation source such as a surface-emitting laser or a radiation source and a LCD affixed to the bottom surface of the prism and providing for the internal illumination, with a plurality of sub-beams, of the contact surface where the finger of the subject is pressed and the top surface of the prism, and a

photoelectric sensor to detect the sub-beam radiation reflected from the fingerprint valley points. The fingerprint ridge contact points do not reflect incident sub-beam radiation. A computer can provide for sequential emission of the sub-beams so that a single cell photoelectric sensor can be used to detect the reflected sub-beams or a multiple cell photoelectric sensor can be used, with each cell corresponding to a particular sub-beam. Reflected sub-beam radiation corresponds to a fingerprint valley point. Non-reflected sub-beam radiation corresponds to a fingerprint ridge point.

Type: Grant

Filed: June 23, 1999

Date of Patent: February 20, 2001

Assignee: International Automated Systems, Inc

Inventor: Neldon P. Johnson

Method and apparatus for reducing receiver imposed distortion

Patent number: 6137831

Abstract: Method and apparatus for reducing the distortion imposed upon a combined information wave by a receiver filter or other signal processor. The method includes a step of adjusting the amplitude of the positive and negative segments of the combined information wave such that the positive and negative segments have pre-selected and equal amplitudes. The apparatus includes an adder circuit for combining the component information waves and the reference wave to form the combined information wave, a wave shaper to produce an equalized wave, and a wave multiplier for proportionally adjusting, on a half cycle basis, the amplitudes of the equalized positive and negative segments. The method further includes a step of pre-distorting the combined information wave to compensate for the distortion effect of a receiver filter or other signal processor.

Type: Grant

Filed: June 20, 1997

Date of Patent: October 24, 2000

Inventor: Neldon P. Johnson

Apparatus and method for digital information transfer

Patent number: 6122323

Abstract: A method and apparatus for multiple frequency, multiple channel digital information transfer through time slot allocation. The apparatus consists of one or more transmitting devices and one or more receiving devices. Multiple source signals are each

allocated a time slot and a frequency. A continuous synchronizing wave defines the time slots and provides for time slot tracking. Digital signals from each source are allocated a time slot and assigned one of the information wave frequencies in that time slot. The information waves are combined with the synchronizing wave and transmitted to one or more receivers as one signal in each time slot. The manner in which the waves are combined allows the components to be extracted by the receivers largely through the use of curve fitting techniques rather than through the use of filters.

Type: Grant

Filed: March 23, 1998

Date of Patent: September 19, 2000

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

PREV 1 2 3 NEXT

Patents by Inventor Neldon P. Johnson

Neldon P. Johnson has filed for patents to protect the following inventions. This listing includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

Signal extraction method and apparatus

Patent number: 6088403

Abstract: A method and apparatus for separating multiple frequency information signals. This invention provides a method and apparatus for separating a communications signal, which is comprised of multiple component information waves of distinct frequencies, into its component waves for demodulation. The extraction of the component information waves is accomplished by determining the mid-cycle zero crossing points of the component information waves by reference to a reference wave, determining the amplitude of the combined wave at these zero crossing points and generating amplitude equations for each of these zero crossing points. These amplitude equations are solved to determine the amplitude coefficients of the component information waves, thereby extracting the transmitted information.

Type: Grant

Filed: November 19, 1999

Date of Patent: July 11, 2000

Inventor: Neldon P. Johnson

Communications method and apparatus for digital information

Patent number: 5689529

Abstract: A method and apparatus for single signal, multiple channel digital information transfer through pulses with time slot allocation. The apparatus consists of one or more transmitting devices and one or more receiving devices. Multiple source signals are each allocated a unique time slot between successive synchronization pulses. Digital signals from each source are converted to analog information pulses synthesized from a combination of a fundamental frequency wave and a finite number of its harmonics. The total signal, which consists of successive synchronization pulses interspersed with information pulses for each signal source, each within its allocated

time slot, is transmitted to the receivers. Each receiving device extracts the fundamental frequency and harmonic components through the use of narrow bandpass, high Q filters for each information pulse in its time slot and uses the known algorithm to reproduce the input digital signals.

Type: Grant

Filed: April 5, 1996

Date of Patent: November 18, 1997

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

Digital communications modulation method and apparatus

Patent number: 5640422

Abstract: A method and apparatus for single signal, multiple channel digital information transfer through waves with time slot allocation. The apparatus consists of one or more transmitting devices and one or more receiving devices. Multiple source signals are each allocated a unique time slot between successive synchronization waves. Digital signals from each source are converted to analog information waves having a positive wave segment and a negative wave segment. The ratio of the amplitude of the positive wave segment to the amplitude of the negative wave segment, the positive-to-negative ratio, for each signal source, is a function of the magnitude of the source digital. The sum of the amplitude of the positive wave segment and the absolute value of the amplitude of the negative wave segment, the positive-to-negative offset, is maintained at a pre-set value at transmission.

Type: Grant

Filed: September 26, 1995

Date of Patent: June 17, 1997

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

Process for encrypting a fingerprint onto an I.D. card

Patent number: 5598474

Abstract: The invention and process utilizes any number of biological parts to provide a proof of legitimacy and from them generate and verify a personal identification card (ID). This rendition of the invention deals mainly with fingerprints, but does not preclude the use of other biological parts. The invention is unique in being able to render complex forms into unique biological characteristic codes of the unique

biological parts, especially the fingerprint, and then to be able to encode that code onto the magnetic strip of an ID card or credit card. The invention renders complex biological forms into numeric representations of the unique biological parts and especially the fingerprint. The number generated thereby is encoded onto the magnetic strip of an ID card or credit card.

Type: Grant

Filed: March 10, 1995

Date of Patent: January 28, 1997

Inventor: Neldon P. Johnson

Modulation method and apparatus for digital communications

Patent number: 5517528

Abstract: A method and apparatus for single signal, multiple channel digital information transfer through pulses with time slot allocation. The apparatus consists of one or more transmitting devices and one or more receiving devices. Multiple source signals are each allocated a unique time slot between successive synchronization pulses. Digital signals from each source are converted to positive analog information spikes which are combined in their respective time slot with a negative reference spike of uniform magnitude to form an information pulse. The total signal, which consists of successive synchronization pulses interspersed with information pulses for each signal source, each within its allocated time slot, is transmitted to the receivers. Each receiving device extracts the maximum information spike values and the reference spike values for one or more of the signal sources.

Type: Grant

Filed: August 2, 1994

Date of Patent: May 14, 1996

Assignee: International Automated Systems, Inc.

Inventor: Neldon P. Johnson

Automated self-service checkout system

Patent number: 4787467

Abstract: An apparatus for self-service check out which calculates, within a main computer, the cumulative total weight of items, based on pre-determined and pre-programmed weights, and compares the computerized cumulative total weight to the weight determined by a second weigh scale means which determines the total weight of all items placed in a receiving container means. Items scanned by electronic means are

itemized by the computer which directs the printing of an itemized register tape. Fraudulent mishandling of items by the customer is overcome by communication between the computer and ending weigh scale when weights calculated by each correspond within a determined tolerance level. In an alternate embodiment, a weighing of pre-scanned items in total is required to correspond with the total weight calculated by the computer and the end weigh scale, within a determined tolerance level.

Type: Grant

Filed: July 31, 1987

Date of Patent: November 29, 1988

Inventor: Neldon P. Johnson

PREV 1 2 3

EXHIBIT A

Exhibit "A" - Neldon Johnson Patents

Application Number	Patent or Publication Number	Title of Invention	Docket Number	Application Date
07/079,951	4,787,467	Automated self-service checkout system		07-31-1987
08/402,014	5,598,474	Process for encrypting a fingerprint onto an I.D. card		03-10-1995
08/285,030	5,517,528	Modulation method and apparatus for digital communications	NJ-001	08-02-1994
08/533,618	5,640,422	Digital communications modulation method and apparatus	NJ-002	09-26-1995
08/628,280	5,689,529	Method and apparatus for reducing receiver imposed distortion	NJ-003	04-05-1996
09/043,478	6,122,323	Apparatus and method for digital information transfer	NJ-004	03-23-1998
08/879,755	6,137,831	Method and apparatus for reducing receiver imposed distortion	NJ-005	06-20-1997
09/268,707	6,236,691	Signal demodulation method and apparatus	NJ-006	03-16-1999
09/444,131	6,255,641	Fingerprint sensing device and method	NJ-007	11-19-1999
09/443,905	6,088,403	Signal extraction method and apparatus	NJ-008	11-19-1999
09/547,636	6,624,757	Shelf pricing display apparatus	NJ-010	04-12-2000
09/339,464	6,191,410	Fingerprint sensing apparatus and method	NJ-011	06-23-1999
09/771,331	6,444,969	Fingerprint sensor and method	NJ-012	01-26-2001
09/814,498	6,533,539	Pressurized gas turbine engine	NJ-013	03-21-2001
10/391,397	6,783,320	Pressurized gas turbine engine with	NJ-021	03-18-2003

Exhibit "A" - Neldon Johnson Patents

		electrothermodynamic enhancement		
10/839,697	6,997,674	Pressurized fluid turbine engine	NJ-026	05-04-2004
10/962,051	7,314,347	Pressurized fluid bladeless turbine engine with opposing fluid intake assemblies	NJ-029	10-07-2004
11/351,738	7,449,807	Magnetic transmission	NJ-030	02-09-2006
11/644,233	7,789,650	Fresnel lens angular segment manufacturing apparatus and method	NJ-031	12-22-2006
11/069,160	US 2006-0191411 A1 (Abandoned)	Water extraction apparatus and method	NJ-032	02-28-2005
11/504,481	7,705,560	Voltage controller	NJ-033	08-15-2006
11/065,965	Abandoned	US 2006-0218039 A1	NJ-035	02-25-2005
11/827,399	7,789,651	Fresnel lens angular segment manufacturing apparatus and method	NJ-041	07-11-2007
12/005,211	7,789,652	Fresnel lens angular segment manufacturing apparatus and method	NJ-042	12-24-2007
11/788,835	8,571,996	Apparatus and method for secured commercial transactions	NJ-044	04-20-2007
11/701,102	8,047,435	System and method for secured voting transactions	NJ-045	01-31-2007
12/987,094	8,900,500	Facet deformation minimizing fresnel lens die roller and manufacturing method	NJ-050	01-08-2011
14/517,797	9,418,791	Folded stack segmented film capacitor	NJ-052	10-17-2014
13/772,272	9,068,763	Solar energy receiver	NJ-053	02-20-2013
14/010,854	9,599,404	Fluid direct contact heat exchange apparatus and method	NJ-054	08-27-2013
14/179,343	US 2015-0225256 A1	Water reclamation system and method	NJ-055	02-12-2014

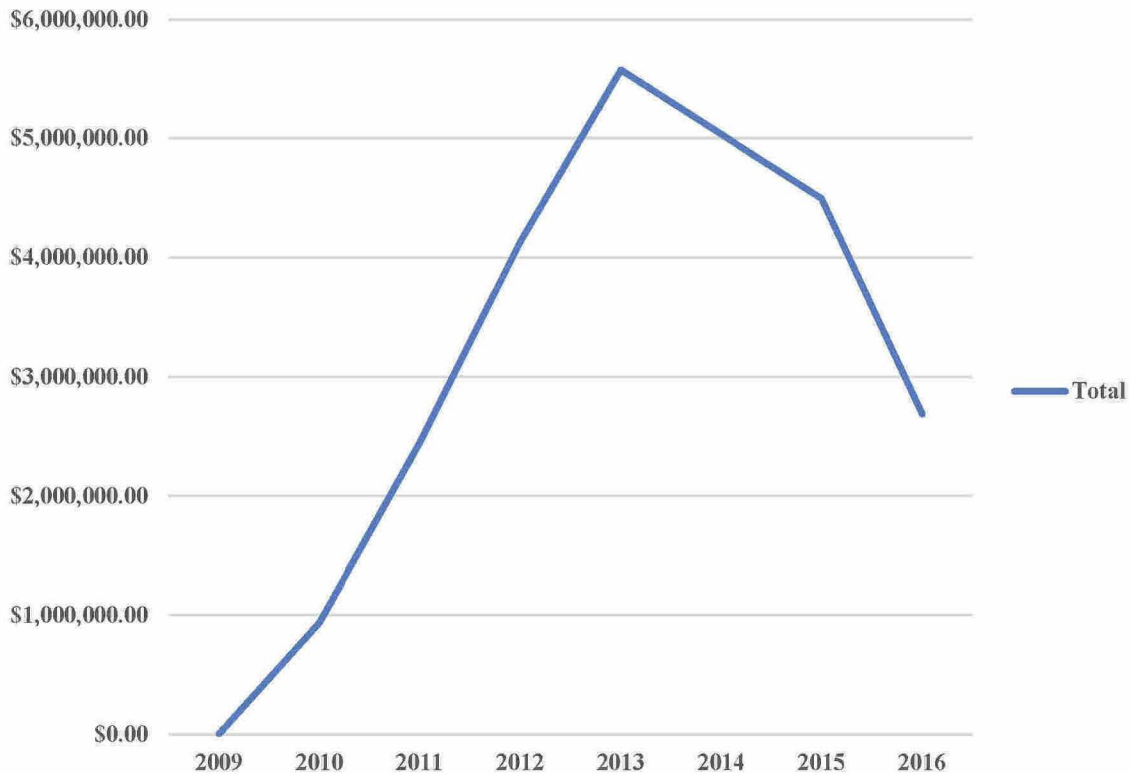
Exhibit "A" - Neldon Johnson Patents

14/173,790	Abandoned	US 2015-0219364 A1	NJ-056	02-05-2014
14/061,731	Abandoned	US 2015-0108939 A1	NJ-057	10-23-2013
14/038,486	US 2015-0088742 A1	Apparatus and method for secured commercial transactions	NJ-058	09-26-2013
14/738,138	US 2016-0365730 A1	Capacitor enhanced multi-element photovoltaic cell	NJ-059	06-12-2015
15/261,811	Un-published	VTOL rotor assembly with stowable blades	NJ-062	09-09-2016
15/354,829	Un-published	Shock dampening pump	NJ-069	11-17-2016

RaPower-3, LLC
Gross Receipts 2009-2016

Grand Total: \$25,310,670

Years	Sum of Amount
2009	\$4,580.01
2010	\$940,008.45
2011	\$2,447,120.37
2012	\$4,131,501.86
2013	\$5,573,907.07
2014	\$5,032,267.06
2015	\$4,493,974.47
2016	\$2,687,311.08
Grand Total	\$25,310,670.37

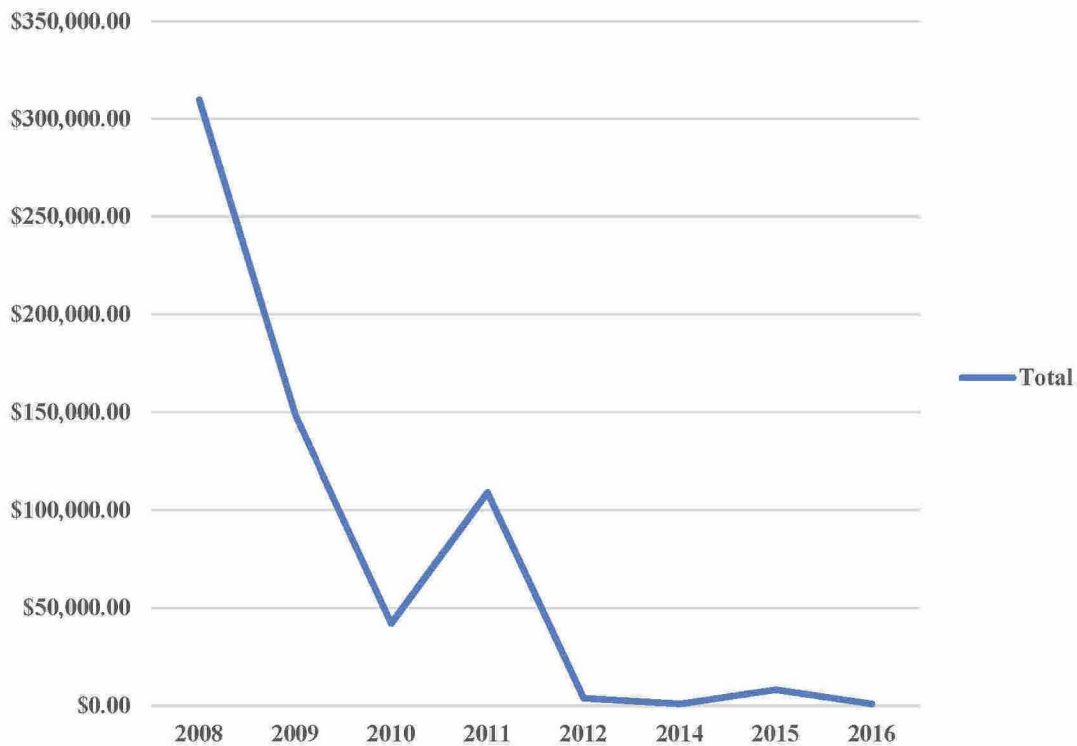


Plaintiff Exhibit
735

Neldon Johnson
Gross Receipts 2008-2016

Grand Total: \$623,449

Years	Sum of Amount
2008	\$309,595.69
2009	\$148,470.80
2010	\$42,121.96
2011	\$109,045.00
2012	\$3,933.47
2014	\$1,000.00
2015	\$8,282.58
2016	\$1,000.00
Grand Total	\$623,449.50

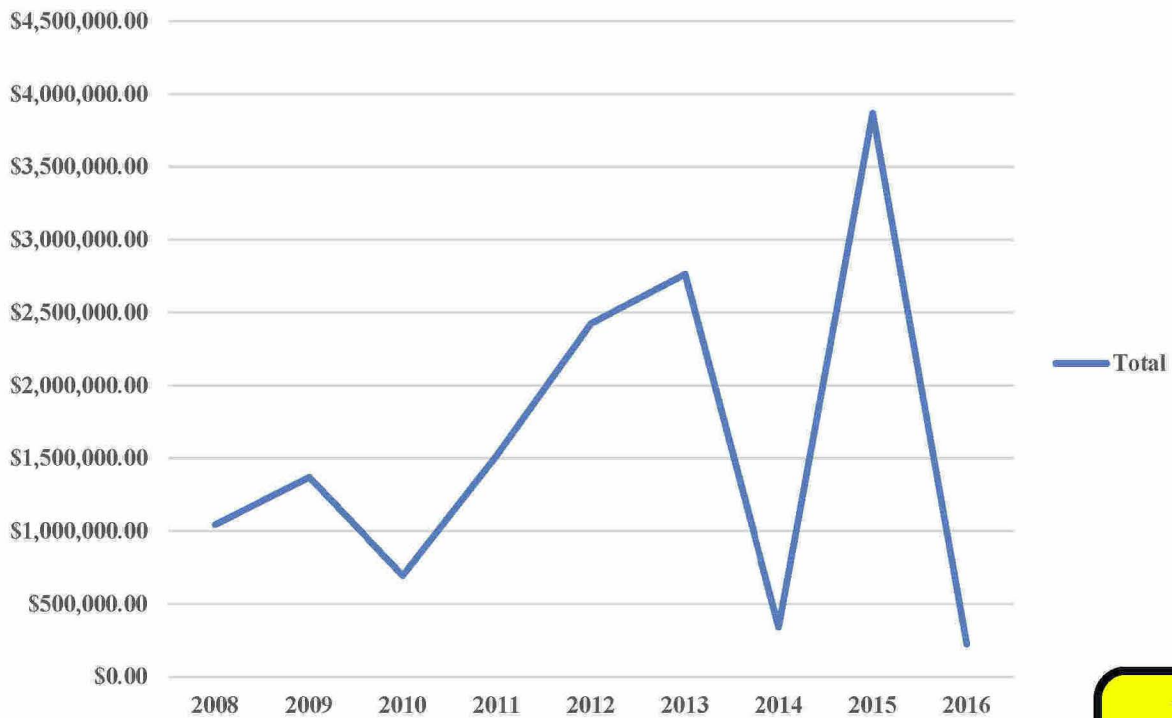


**Plaintiff
Exhibit**
737

**International Automated Systems
Gross Receipts 2008-2016**

Grand Total: \$14,256,462

Years	Sum of Amount
2008	\$1,045,319.08
2009	\$1,369,718.58
2010	\$695,772.05
2011	\$1,521,087.38
2012	\$2,425,424.11
2013	\$2,764,330.18
2014	\$340,680.34
2015	\$3,868,925.85
2016	\$225,205.02
Grand Total	\$14,256,462.59

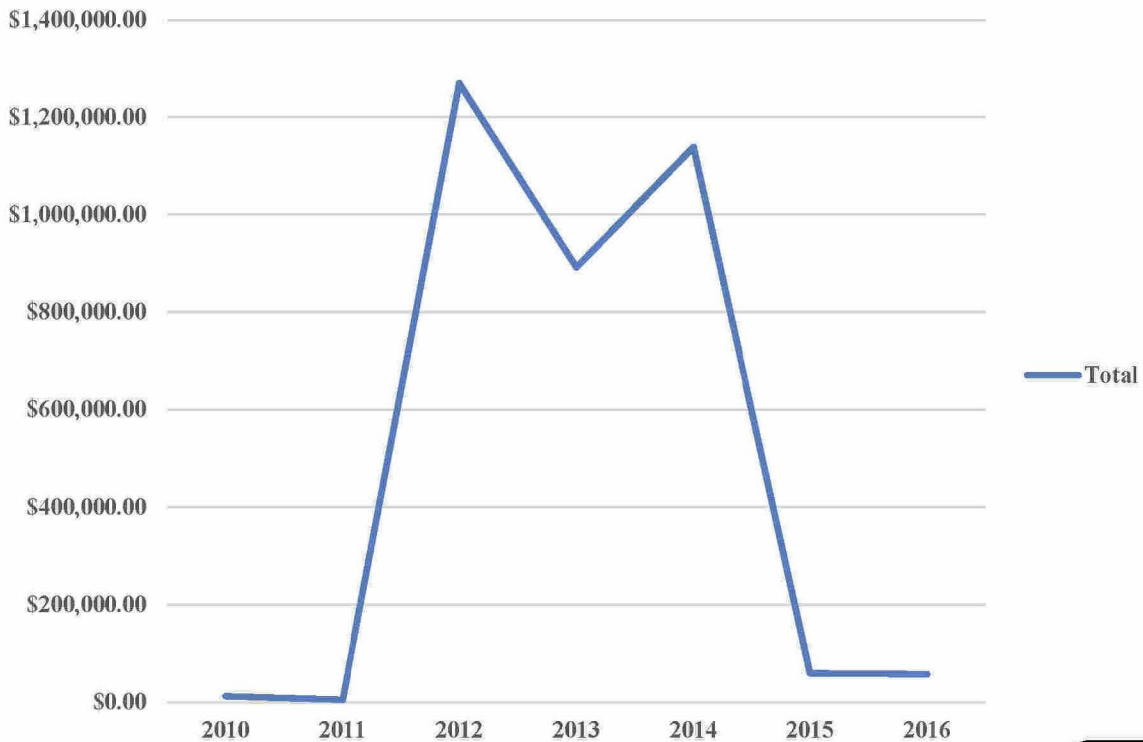


**Plaintiff
Exhibit**
738

Solco I, LLC
Gross Receipts 2010-2016

Grand Total: \$3,434,992

Years	Sum of Amount
2010	\$12,450.00
2011	\$5,200.05
2012	\$1,269,595.55
2013	\$891,859.29
2014	\$1,138,606.87
2015	\$59,630.45
2016	\$57,650.08
Grand Total	\$3,434,992.29

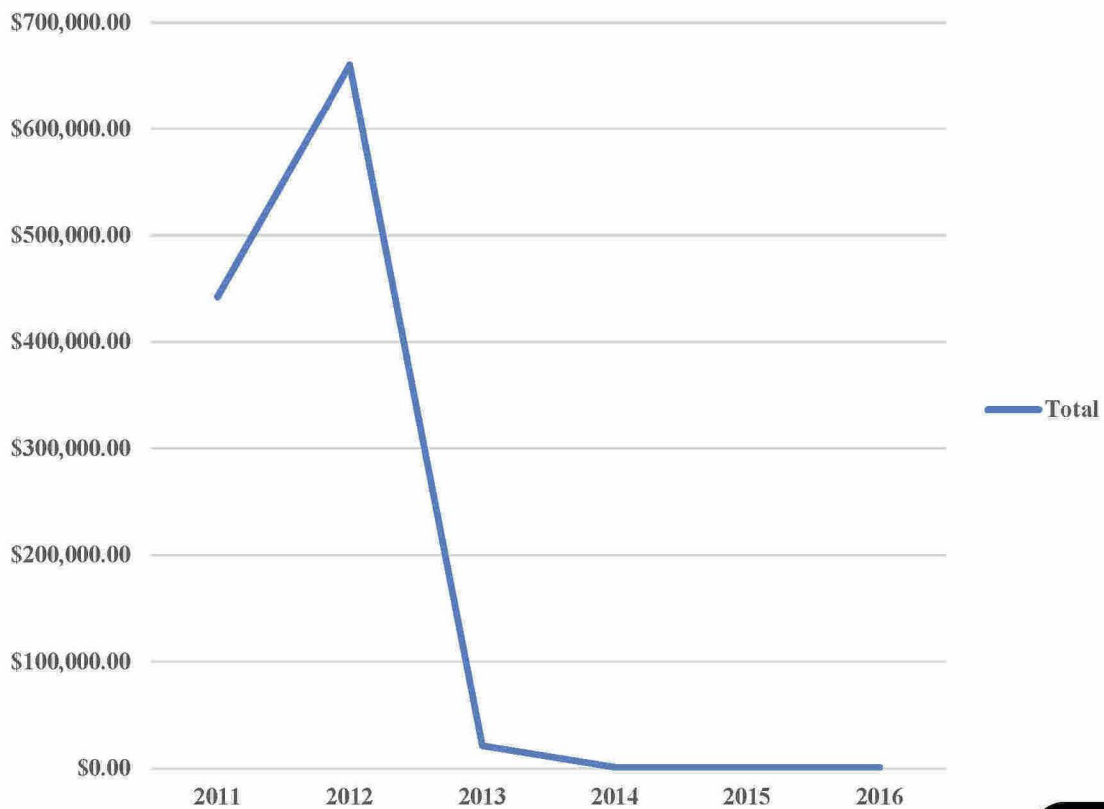


**Plaintiff
 Exhibit**
 739

XSun Energy, LLC
Gross Receipts 2011-2016

Grand Total: \$1,126,888

Years	Sum of Amount
2011	\$442,355.43
2012	\$660,462.57
2013	\$21,298.73
2014	\$1,170.10
2015	\$813.17
2016	\$788.18
Grand Total	\$1,126,888.18

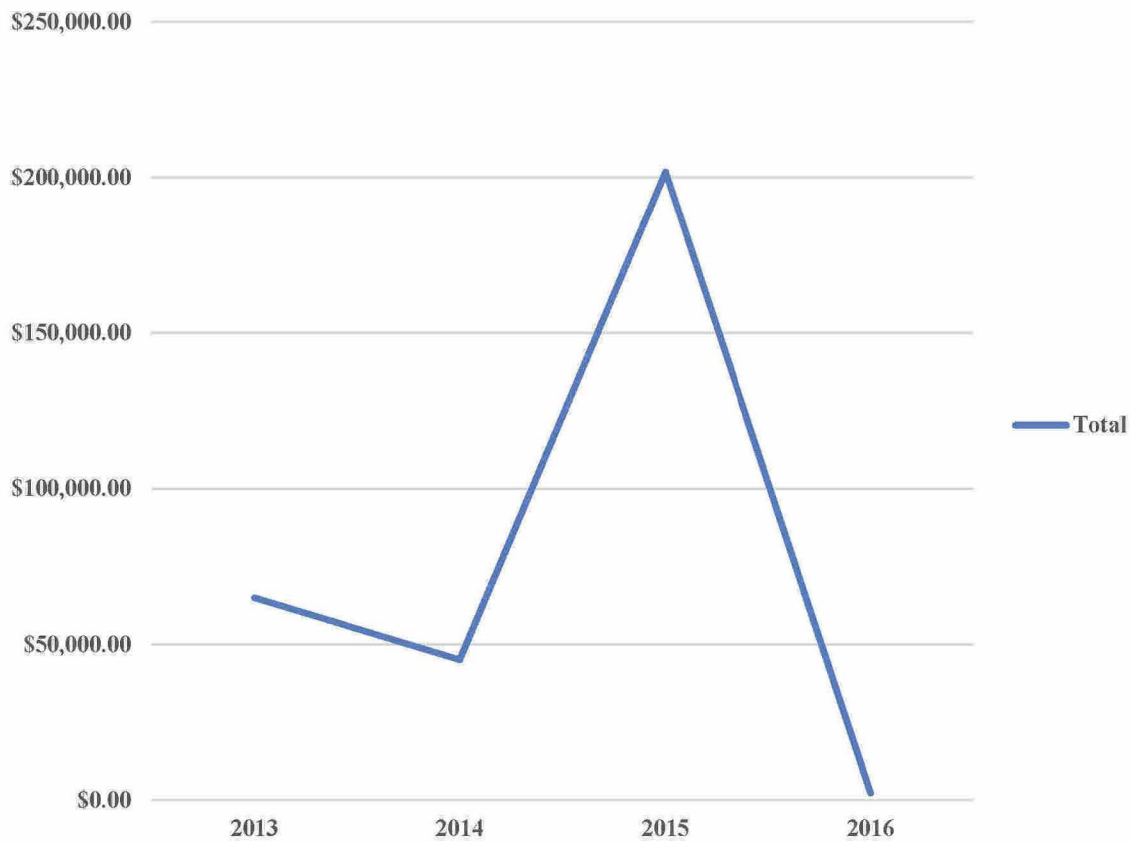


Plaintiff Exhibit
741

Cobblestone Centre Gross Receipts 2013-2016

Grand Total: \$314,196

Years	Sum of Amount
2013	\$65,000.04
2014	\$45,091.81
2015	\$201,832.14
2016	\$2,272.79
Grand Total	\$314,196.78



**Plaintiff
Exhibit**
741

Tax Benefits Claimed

TY 2013-2016

Tax Preparer	Depreciation Expense	Solar Energy Credit
John Howell (Texas)	\$14,829,035	\$5,912,267
Kenneth Alexander (Florida)	\$9,643,475	\$1,154,650
Richard Jameson (Utah)	\$3,452,658	\$921,900
Other Preparers	\$2,959,334	\$1,856,930
Grand Total	\$30,884,502	\$9,845,747

**Plaintiff
Exhibit**
752

Tax Benefits Claimed

TY 2013-2016

Tax Year	Depreciation Expense	Depreciation at Average Tax Rate*	Solar Energy Credit
2013	\$6,779,926	\$924,782	\$2,926,905
2014	\$10,893,841	\$1,542,568	\$4,053,787
2015	\$9,087,035	\$1,303,081	\$1,903,915
2016	\$4,123,700	\$591,339	\$961,140
Grand Total	\$30,884,502	\$4,361,770	\$9,845,747

* The average tax rate for TY2013 is 13.64%, TY2014 is 14.16%, and TY2015 is 14.34%. IRS SOI (Statistics of Income) Tax Stats website: <https://www.irs.gov/statistics/soi-tax-stats-individual-statistical-tables-by-tax-rate-and-income-percentile>. The average tax rate for TY2016 is not yet available, so the average tax rate from TY2015 is applied.

Tax Benefits Claimed

TY 2013-2016

Tax Year	Depreciation at Average Tax Rate*	Solar Energy Credit	Harm to Treasury
2013	\$924,782	\$2,926,905	\$3,851,687
2014	\$1,542,568	\$4,053,787	\$5,596,355
2015	\$1,303,081	\$1,903,915	\$3,206,996
2016	\$591,339	\$961,140	\$1,552,479
Grand Total	\$4,361,770	\$9,845,747	\$14,207,517

* The average tax rate for TY2013 is 13.64%, TY2014 is 14.16%, and TY2015 is 14.34%. IRS SOI (Statistics of Income) Tax Stats website: <https://www.irs.gov/statistics/soi-tax-stats-individual-statistical-tables-by-tax-rate-and-income-percentile>. The average tax rate for TY2016 is not yet available, so the average tax rate from TY2015 is applied.

Tax Documents:



Placed In Service Letter



Tax Letter (K&M)



Tax Opinion (Anderson)

Business Entity Details

Business Documents:



Installation Permit



Manufacturing Permit



Business License Approval

Technology: Technology Overview Technology Videos Disruptive Solutions The Basics Patents

Opportunity: Opportunity Overview Your Revenue Calculate Lenses Buy Lenses and Join

Make Payments To: RaPower3 LLC 2730 W 4000 S Oasis, UT 84624

PR Contact: Matthew Shepard matt@rapower3.com 801-651-2183

Business Contact: Greg Shepard greg@rapower3.com 801-699-2284

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U.S. SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 10-K

ANNUAL REPORT UNDER SECTION 13 OR 15 (d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended June 30, 2010
or


TRANSITION REPORT UNDER SECTION 13 OR 15 (d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number 33-16531-D

INTERNATIONAL AUTOMATED SYSTEMS, INC.
(Name of small business issuer in its charter)

Utah
State or other jurisdiction of incorporation or organization


I.R.S. Employer Identification No.

326 North SR 198, Salem, Utah 84653
(Address of principal executive offices)

Registrant's telephone number, including area code: (801) 423-8132

Securities registered pursuant to Section 12(b) of the Act: None

<u>Title of each class</u>	<u>Name of each exchange on which registered</u>
N/A	N/A

Securities to be registered under section 12(g) of the Act: None

Check whether the registrant (1) filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such report(s)), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

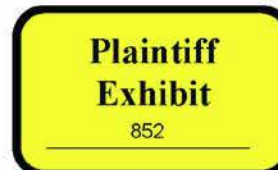
Check if disclosure of delinquent filers in response to Item 405 of Regulations S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form

10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. Check one:

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No



State the registrant's net revenue for its most recent fiscal year: \$0.00. The aggregate market value of voting stock held by non-affiliates of the registrant on June 30, 2010, was approximately \$10,567,900

State the number of shares outstanding of each of the issuer's classes of common equity, as of the latest practicable date:

As of September 30, 2010, there were 42,075,271 outstanding shares of registrant's Common stock, no par value per share.

Documents incorporated by reference: Exhibits

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Forward-Looking Statements

In this report, references to "International Automated Systems," the "Company," "we," "us," and "our" refer to International Automated Systems, Inc.

This annual report on Form 10-K contains certain forward-looking statements and for this purpose any statements contained in this annual report that are not statements of historical fact are intended to be "forward-looking statements" with the meaning of the Private Securities Litigation Reform Act of 1995. Without limiting the foregoing, words such as "may," "will," "expect," "believe," "anticipate," "estimate" or "continue" or comparable terminology are intended to identify forward-looking statements. These statements by their nature involve substantial risks and uncertainties, and actual results may differ materially depending on a variety of factors, many of which are not within our control. These factors include but are not limited to economic conditions generally and in the markets in which we may participate, competition within our chosen industry, technological advances and failure by us to successfully develop business relationships.

We caution readers not to place undue reliance on any forward-looking statements, which speak only as of the date made, are based on certain assumptions and expectations which may or may not be valid or actually occur and which involve various risks and uncertainties.

Unless otherwise required by applicable law, we do not undertake, and specifically disclaim any obligation, to update any forward-looking statements to reflect occurrences, developments, unanticipated events or circumstances after the date of such statement.

ITEM 1. DESCRIPTION OF BUSINESS**THE COMPANY**

Exact corporate name:	International Automated Systems, Inc.
State and date of incorporation:	Utah- September 26, 1986.
Street address of principal office:	326 North SR 198 Salem, Utah 84653
Company telephone number:	(801) 423-8132
Fiscal year:	June 30

International Automated Systems, Inc. ("the Company"), was organized under the laws of the State of Utah on September 26, 1986. In April 1988 the Company filed a registration statement for a public offering under the provisions of the Securities Act of 1933 ("1933 Act") to sell a maximum of 1,074,000 units at a price of \$.50 per unit. Each unit was comprised of one share of common stock and one common stock purchase warrant. The Company sold approximately 200,000 units at the offering price of \$.50 per unit realizing total proceeds of approximately \$100,000. All warrants expired without exercise.

Over time, the Company, for the most part, has acquired its technologies from its president.

OVERVIEW

International Automated Systems, Inc., a Utah corporation (hereinafter "Registrant" or "Company") based in Salem, Utah, seeks to design, produce and market leading edge technology products. The Company has a production model of a patented turbine which uses the expansion of steam to generate a rotational force. This force can then be used to generate power. The Company feels the turbine could be used in, but not limited to, the production of electricity, hydrogen or in the transportation industry. Though some testing has been done using pure steam and geothermal steam, more testing will be done. There are risks that a commercial turbine may never be accepted.

The Company has an Alternate Solar Energy Thermal System ("System") which can be used in conjunction with the Company's bladeless turbine to generate power. The system tracks the sun as it concentrates the solar energy onto a receiver and this energy is captured and used to propel the bladeless turbine. A typical System will use multiple concentrators to supply a single turbine.

The Company has developed an automated self-service check-out system and management software. This system allows retail customers to ring up their purchases without a cashier or clerk. The system is primarily designed for grocery stores, but may be applicable in other retail establishments.

The Company has an Automated Fingerprint Identification Machine ("AFIM") which has the capability of verifying the identity of individuals. Potential AFIM applications include products for employee time-keeping and security, access control, and check, debit or credit card verification. The Registrant purports that its identity verification system has a variety of uses and applications for both commercial and governmental users. The Company also purports that it has developed technology that transmits information and data using different wave patterns, configurations and timing in the electromagnetic spectrum. The Company refers to this technology as digital wave modulation ("DWM"). The Company believes that if the technology is implemented and applied commercially, the technology has the capability to significantly increase the amount of information which can be transmitted. The Company is continuing the development of this technology and the commercial feasibility of the technology has not been demonstrated. The Company believes it has many competitors in the communications, information data transfer and data storage industries which have greater capital resources, more experienced personnel and technology which is more established and accepted in the market place.

The first anticipated product using this technology for commercialization is a high-speed modem. The modem is projected to be faster than modems currently in use. Generally modems are used for purposes of transmitting data over telephone lines, on telecommunications systems and over wireless mediums such as satellite transmissions and other line- of-sight transmission mediums. The Company has a modem prototype. Additional development to achieve a commercial product is on going. In addition, the Company intends to apply the digital wave modulation technology in other areas. The Company has not established a plan or order of priorities for any future commercial product development. Because this technology is sophisticated and new, the Company may not be successful in its efforts to have commercial exploitable products because of difficulties and problems associated with development. Possible problems could be inability to design, construct and manufacture commercial products; and the Company's lack of funding and financial resources and experienced personnel. Competitors may develop technologies which are superior and will make the DWM technology obsolete even before the Company has completed its development of any commercial products. Cost will also be a factor in both the development and the commercialization of any new product. It is anticipated that if a commercially viable modem is developed, the Company will have to expend funds to develop a marketing plan and introduce the product into the market. Costs to offer new products and to establish the proper marketing strategy will be significant. The Company has not made any projections regarding any anticipated costs.

There are risks that no commercially viable products will be developed from the technologies and any products developed may not be accepted or successful in the marketplace. In addition, the Company may not have sufficient funds to develop, manufacture and market any products.

Propulsion Steam Turbine

The Company has a new patented bladeless turbine production model. It uses the expansion of steam, through propulsion, to create a rotational force.

The production model has been tested using pure steam created by a gas heat exchanger. The Company feels their propulsion design has many advantages over current bladed turbines. The Company believes their turbine is at least as efficient as traditional turbines, is smaller in size, requires less maintenance, is mass producible and therefore less expensive to manufacture. It also doesn't require cooling towers, thus making it more mobile, more economical and water conserving.

The Company believes that the turbine will be marketable in the utility power industry, hydrogen production and transportation. There are also risks that the Company will not be able to manufacture a commercially marketable turbine because of lack of financing, government interference, industry non-acceptance or many other conditions not under the Company's control.

The Company has a model of a System which can be used to produce steam to drive the Company's bladeless turbine. The Company believes that the possible advantage over other similar systems is the Systems ability to be mass produced, thus reducing its overall cost as compared to other systems. The Company has developed proprietary structural and lens designs in preparation for mass production of the System.

Automated Self-Service Check-Out System.

In 1988 a patent was granted for the automated self-service check-out system (hereinafter referred to as the "Self-Check System"). In retail operations, the Self-Check System allows customers to check-out the items selected for purchase.

Description of the Self-Check System.

The Self-Check System is an automated check-out system for customers of retail establishments and provides for self-service check-out lines, stations or lanes. The Self-Check System has a scanner to read the bar codes of items purchased and a scale to weigh the items scanned and placed in the receiving basket. As each item is scanned by the bar code reader, the scale verifies the accuracy of the item scanned and placed in the basket by comparing the weight of the item scanned with the weight change recorded in the receiving basket. If the weights differ or if other problems arise, a clerk is summoned to assist the customer and resolve any problem.

The Self-Check System is designed to replace clerk operated cashier registers that are used in retail and grocery stores. In addition, the Self-Check System, when fully and completely implemented, is intended to allow a store manager to maintain accurate inventory on a contemporaneous basis. The contemporaneous inventory assists in reordering and restocking. It is believed that the System may simplify price verification and may provide customers with better and faster service.

Operation of Self-Check System

The Self-Check System operates as follows. Customers make their selections for purchase. A customer places the grocery cart at the head of the System, removes the products from the grocery basket and scans the bar codes on the products across the reader. The bar code provides, as a data base index, the product description, weight and price. This information is then relayed on an item by item basis to the computer and the computer transmits the data in its memory to the check-out terminal. The product information, item description and price, are then displayed on the screen. A running subtotal for all items purchased is also shown. Each item scanned is placed into a receiving basket or cart on a sensitive scale. The weight of the item scanned and placed in the receiving basket is compared to the weight for that item as recorded in the computer. The computer compares the weight of the scanned item with the weight for that item in the database. If the weight differs, an error code is displayed and an attendant is summoned to assist the customer or to override the System. Once all the items are scanned, a final tally is made. Payment is then made to the attendant either through a debit or credit card, check or cash. A payment may also be made without an attendant through the use of the "AFIM" which will verify the identity of the person making the transaction and automatically debit their account electronically.

The Self-Check System interfaces with computers and data is transferred back and forth between the check-out terminals and the main computer. The interface may be compatible with various scanners and scales so the Self-Check System may be adaptable to equipment already from other manufacturers. The System allows one clerk to handle simultaneously multiple check-out stations or lanes.

Possible Advantages.

Management believes the Self-Check System may have several possible advantages over conventional retail check-out systems to operators and customers. For operators the advantages are: reduced labor costs, more accurate inventory, theft reduction, theft deterrence, decreased check fraud, and decreased transaction costs. Also, the retailer can serve more customers during peak traffic. For customers the advantages are: faster service, greater convenience, less time waiting in line and more privacy. A retail establishment may not need as many cashiers with the Self-Check System.

Management believes that the market for the Self-Check System may include several types of retail establishments, including grocery stores, drug stores, discount stores and fast food restaurants. If operating properly the Self-Check system lessens the impact of having too many attendants or cashiers available. Customer traffic volume is difficult to predict and retail operators wanting to reduce the time customers wait in line must have sufficient clerks or cashiers available.

The Self-Check System uses proprietary software developed by the Company. The Self-Check System also offers a hand-held unit to be used for price verification and taking physical inventory counts. The hand-held unit reads the bar codes and verifies the price in the database. This hand-held unit also is used to take physical counts for inventory control. The System may also include a check-in station at the loading dock. Items delivered are checked and the prices verified against purchase orders allowing greater control. Price verification can be done using the hand-held unit while the products are on the shelf.

For the Self-Check System to operate efficiently at least 95% of the items offered for sale must have bar codes. In the past few years virtually all packaged goods have bar codes. Items purchased across the counter, such as bakery, meat and deli products usually have no bar code.

Grocery stores or other retail operations using the Self-Check System may have to install scales and labelers to place barcodes on items with no bar code. As an option the Company offers scales and labelers for produce and delicatessen items which interface with the Self-Check System. Management believes that the Self-Check System may help reduce theft. For instance, one clerk cannot check-out another clerk's or friend's purchases using incorrect and understated prices. A portion of the theft in supermarkets is attributable to employees doing what is called "sweet-hearting" by checking-out the purchases of other employees or friends at reduced prices.

Another market being tested is automatic ordering and payment for use in restaurants and fast-food establishments. Where the customer would use a touch screen, connected to a computer, to place an order, pay for the order with cash, check, credit, or debit card using the Company's technologies including AFIM and then have the order automatically sent to the cook for preparation.

Competition

Competitors offer a similar Self-Check System. The success of these other entities and the system used may, individually or collectively, significantly affect the Company's attempt to commercialize its Self-Check System. The Company has no market studies to determine its relative position with its competitors in the market place. Some competitors have been in business longer, have more experienced personnel, have greater financial resources and better name recognition in the marketplace.

Automatic Fingerprint Identification Machine.

The company has an Automated Fingerprint Identification Machine ("AFIM") which verifies an individual's identity. The AFIM digitizes the unique characteristics of a person's fingerprint and then stores the information on a magnetic strip similar to the strip on the back of a credit card or on other storage medium. The identity verification process is simple, quick, easy, and reliable. AFIM connects to and operates with a personal computer. AFIM has unique software. Management believes that AFIM is better than other bio-metric and fingerprint based identification systems. The Company is continuing to make modifications to the AFIM technology to increase the speed and to reduce the cost and size of the units.

Operation.

To use the AFIM the person whose identity will be verified has the fingerprint read by the AFIM. The finger is placed on the lens and AFIM reads the print, digitizes, and stores the digitized fingerprint. To verify a person's identity AFIM reads the fingerprint and compares it to the digitized fingerprint on the magnetic strip or other storage medium. A match verifies the person's identity. The AFIM is connected to a personal computer which processes the information read by the AFIM and makes the comparison to the digitized fingerprint on the magnetic strip or other storage medium. The Company believes that it has the ability to connect AFIMs in series so that multiple stations or readers can be connected and operated by a single personal computer.

Possible Commercial Applications.

Different commercial applications of the AFIM are under development. One application is a time clock. The digitized fingerprint stored on the magnetic strip on the back of a card like a credit card must match the person's fingerprint that is recording his arrival at or departure from the workplace. Because the AFIM system validates the identity of the person using the time clock, fellow workers can not make in or out entries for other workers.

Also, AFIM with appropriate software may be used with a database of fingerprints. The fingerprint is read by the AFIM and then verified against the database for identification and, where appropriate or required, for access control purposes. Searching the database requires additional time to verify the identity of the individual using the fingerprint stored in the database. To date the full marketing of the AFIM time clock has been delayed as development of the product is continuing and modifications to the AFIM are made.

The Company has no comprehensive study or evaluation to determine the reliability of the AFIM or the frequency of false positives. A false positive is where a verification is sought and the person is identified as correct when it is not the person claimed. Management believes, based on the limited experience available, that AFIM does not yield false positives or false negatives at unsatisfactory levels.

Another application of the AFIM technology is door or entry security. The AFIM would read a card on which the fingerprint of the person seeking entry would be encoded. The fingerprint of the person seeking entry as read by the AFIM would have to match the fingerprint digitized and encoded on the card. To be successful the Company believes that the door security adaptation must be compatible with or adaptable to other door entry security systems already in place.

Another application of the AFIM technology is a vending machine which will allow items to be purchased which now require age and identity verification.

Another product based on AFIM technology is identity verification on computer networks or identification when data is transmitted or accessed. The AFIM would read the fingerprint to validate the identity of the user. Depending on the system protocols the person would then be allowed access to data, files, information or programs. Also, the identity verification, if development is completed, may validate the identity of the person either receiving or sending information.

Another application of the AFIM technology is fingerprint secured financial transactions. A card user designates which personal account he/she would like to use. Upon positive AFIM verification, the Company's software sends the transaction information via ACH protocols to the Company's bank and the Company's bank debits the customer's bank account. The funds are then deposited into the participating retailer's account.

For future development and possible commercialization of the AFIM technology and the possible application the Company may attempt to enter into licensing agreements or joint ventures. Presently the Company is merely considering the possibility of licensing agreements or joint venture agreement. At this time there are no agreements to which the Company is a party for licensing, royalties or joint venture projects.

Competition.

The AFIM based products compete with a broad spectrum of products which verify identity. Competitors offer products based on some form of bio-metrics. Some competitors offer fingerprint based systems. The success of these other entities and the system used may, individually or collectively, significantly affect the Company's attempt to commercialize AFIM. The Company has no market studies to determine its relative position with its competitors in the market place. Some competitors have been in business longer, have more experienced personnel, have greater financial resources and better name recognition in the marketplace.

Possible Advantages.

The Company believes that the AFIM products will be quicker, more reliable, and more cost-effective than other identification systems. The Company has no empirical data or statistics to support its belief.

Digital Wave Modulation Technology.

Digital Wave Modulation ("DWM") technology may provide a new way of transmitting data. Basically different wave patterns are generated on the magnetic spectrum which may increase flows of data and information transmission and communication. More data will be transmitted in a shorter time period and speed may be increased.

DWM technology is based on the transmission of symmetrical, asymmetrical, and reference waves that are combined and separated. The Company has a modem prototype that has the capability of sending and separating combined multiple waves. Depending upon frequencies and other factors, the Company believes it can achieve transmission rates in excess of modems currently in use. Data transmission speed will depend on such factors as the transmission medium, frequencies used and wave combinations. The rate of data transmission varies significantly depending on the communication medium used. When using plain old telephone system commonly known as "POTS", transmission rates will be slower. DWM is not compatible with the technology used in other modems.

DWM can be used to transmit over any analog media including wireless. Because wave frequencies may be higher when sent through the air, wireless data transmission using DWM technology may transmit information at higher rates.

Preliminary evaluations indicate that DWM technology may be used for data storage media which are magnetic based, such as floppy disks, hard drives, video cassettes, tapes etc. Because various forms of magnetic media store in analog format, DWM may increase the storage capacity of some magnetic based devices. DWM storage enhancement applications have not been fully developed and tested and may ultimately prove infeasible and impractical.

DWM must be developed from a prototype to a commercially viable product. Even though the Company has a prototype, the Company makes no assurance that the DWM technology can be developed into a commercially viable product or products.

If the research and development of the modem is successful and the Company then has a commercially viable product, the Company will consider various alternatives. It may seek a joint venture partner or it may license the technology to another company and attempt to structure a royalty payment to the Company in the licensing agreement. No plan has been adopted regarding the manufacturing, marketing, or distributing of the modem, when and if commercialization is achieved. No assurance can be given that the commercialization efforts for the modem will be successful or that the Company will be able to effectively penetrate and capture a share of the modem market. Any possible ventures are predicated on the Company developing a commercially viable product. Presently, the Company's efforts regarding DWM are directed primarily toward the DWM modem.

Management believes that because of the increased amount of information that can be transmitted, other applications in the telecommunications industry may be feasible and beneficial. Again because of the sophisticated and high technology nature of this technology other applications may not ultimately be successful.

The Company is a development stage company and its business is subject to considerable risks. The Company's activities have not developed sufficient cash flows from business operations to sustain itself. The Company is small and has an extremely limited capitalization. Many of its actual and potential competitors have greater financial strength, more experienced personnel and extensive resources available. Also, the Company is engaged in technological development. It is expensive to do research and development on new products or applications of new or existing technology. Resources can be used and depleted without achieving the desired or expected results. Also, because of the rapid development of technology, the Company's products may become obsolete. Some of the Company's technology is revolutionary in that it is based on unconventional technological theories. The Company's business activities are subject to a number of risks, some of which are beyond the Company's control. The Company's future is dependent upon the Company developing technologically complex and innovative products. The Company's future depends on its ability to gain a competitive advantage. Product development based on new technology is complex and uncertain. New technology must be applied to products that can be developed and then successfully introduced into and accepted in the market. The Company's results could be adversely affected by delay in the development or manufacture, production cost overruns and delays in the marketing process.

To the extent that this report contains forward-looking statements actual results could vary because of difficulties in developing commercially viable products based on the Company's technologies. The Company undertakes no obligation to release publicly the revisions of any forward-looking statements or circumstances or to report the non-occurrence of any anticipated events.

Management of the Company has had limited experience in the operation of a public company and the management of a commercial enterprise large in scope.

The Company's business, if its technological development is successful, will require the Company to enter new fields of endeavor and even new industries. Entry into new markets will have many risks and require significant capital resources. If the Company seeks funds from other sources, such funds may not be available to the Company on acceptable terms. Success will be dependent on the judgment and skill of management and the success of the development of any new products.

The Company's success depends, and is expected to continue to depend, to a large extent, upon the efforts and abilities of its managerial employees, particularly Neldon Johnson, President of the Company. The loss of Mr. Johnson would have a substantial, material adverse effect on the Company. The Company has entered into an agreement with Neldon Johnson to act as President and Chief Executive Officer for a period of ten years beginning in July 2000.

The Company is not insured against all risks or potential losses which may arise from the Company's activities because insurance for such risks is unavailable or because insurance premiums, in the judgment of management, would be too high in relation to the risk. If the Company experiences an uninsured loss or suffers liabilities, the Company's operating funds would be reduced and may even be depleted causing financial difficulties for the Company.

Patents and Trade Secrets.

The Company has been assigned or will be assigned the rights to several U.S. patents. Four patents pertaining to the AFIM technology granted January 1997, February 2001, July 2001, and September 2002, seven patents relate to the DWM technology granted May 1996, June 1997, November 1997, July 2000, September 2000, October 2000, and May 2001, one patent pertaining to shelf tag granted September 2003, and four patents relating to the turbine granted March 2003, January 2004, February 2006 and November 2007. One patent pertaining to the solar energy technology granted in October 2007.

The Company has not sought or received an opinion from an independent patent attorney regarding the strength of the patents or patents pending and the ability of the Company to withstand any challenge to the patent or any future efforts by the Company to enforce its rights under a patent or patents against others. One of the AFIM patents was deemed invalid per a court decision in January 2008. See further discussion in Item 3.

The Company believes that it has trade secrets and it has made efforts to safeguard and secure its trade secrets. There can be no assurance that these safeguards will enable the Company to prevent competitors from gaining knowledge of these trade secrets and using them to their advantage and to the detriment of the Company.

The Company relies heavily on its proprietary technology in the development of its products. There can be no assurance that others may not develop technology which competes with the Company's products and technology.

Future Funding

Because the Company is a development stage company and currently has no revenue, it will continue to need additional operating capital either from borrowing or the sale of additional equities. The Company has no present plans to borrow money or issue additional shares for money. However, shares have been sold from the escrow accounts and it is anticipated that additional shares will be sold from the escrow accounts. In the past, the Company has received funds from its president and his relatives in the form of cash advances. The Company received \$498,082 in cash advances from its president during the year ended June 30, 2010. The cash advances are unsecured, payable on demand and non-interest bearing. No assurance can be given that the Company will continue to receive funds from its president. No agreements or understandings exist regarding any future contributions. In addition, during the year ended June 30, 2010, the Company settled \$400,000 of the cash advances by issuing 1,000,000 shares of common stock to the officer upon the exercise of warrants; and the Company repaid \$104,432 of the cash advances. As of June 30, 2010 and 2009, the cash advances, included in the related party payable balance, was \$434,032 and \$440,382, respectively.

General

From its inception the Company's primary activity has been the development of different technologies. Since its formation, the Company has developed technologies which are in different stages of development. To date the Company has not marketed a commercially acceptable product.

Employees

The Company has twelve full-time employees. Our employees are not represented by any labor union, and we believe our relations with employees are good.

Company Headquarters

The Company's office is located at 326 North SR 198, Salem, Utah 84653. The Company's office and warehouse cost \$12,200 per month and are rented from the Company's president and a third party. The monthly rent includes a 200 square foot office space.

Warranty

The Company warrants that its System will remain in good operating condition for a thirty-five year period commencing on the installation date and that it will be responsible for all material, equipment and labor costs incurred to complete such maintenance and repair work during that period.

Marketing

The Company has not finalized its marketing strategy for all its products at this time.

The Company has received deposits of \$2,360,250 from parties toward the purchase of approximately 270 Systems.

For the AFIM and DWM technologies the Company has not determined any definite marketing plan.

The Company may seek joint venture partners, may license the product to others or may seek to establish distribution channels. It is anticipated that any marketing efforts will require time and capital to develop.

Competition

Because the Company's products are distinct, its products will face different competitive forces.

The Bladeless Turbine and System has competition from larger well-established companies that already have a history and name recognition. Though the turbine has many potential uses, especially in the area of electrical generation, there is no assurance that the marketing strategies will be successful.

AFIM competes with all forms and systems of identity verification. End users have different needs including cost, sophistication, degree of security, operational requirements, time for individual verification and convenience. The Company believes that no firm dominates the identity verification market.

If the Company successfully completes the development of a commercially viable modem, the Company will face competition from large, well-established firms. These firms offer products with immediate name recognition and are established in the market place and are compatible with other modems. The Company believes because of the speed at which its modem may operate it may have a competitive advantage. The Company has no marketing studies or market research reports to determine the acceptance of the modem in the market place or the best marketing strategy to follow. Further, no assurance can be given that the Company will be successful in its further development of the DWM products.

The Company has no market share for any products at this time.

In marketing the Self-Check System the Company faces competition from major companies with established systems in the point of sale terminal market. Overcoming reluctance to change may be difficult. In addition, the System may not be compatible with or applicable to all types of retail operations.

The Company may rely on prospects known to management or developed by word of mouth. The Company may develop a franchise program as a means to market and distribute the Self-Check System or OrderXCEL system.

Manufacturing and Raw Materials

The manufacturing of the turbine and System has been done mostly by the Company up to this point, but if needed, the design could easily be outsourced. If marketing efforts succeed and demand for the turbine and System increase, the Company plans to have them manufactured by established companies in their fields, with much of the assembling done on site.

Management believes that the supplies and parts are readily available from sources presently used by the Company or from alternative sources which can be used as needed. The Company has no backlog.

Research and Development

The Company's primary activity is the development of its technologies. The industries may be subject to rapid and significant technological change. Future growth for the Company may be dependent on its ability to innovate and adapt its technologies to the changing needs of a marketplace. In the past the Company's activities have primarily consisted of its efforts in research and development. During fiscal years ended June 30, 2010 and 2009, research and development expenses were \$493,550 and \$704,889, respectively. Although no precise dollar amount has been determined, the Company will continue to allocate resources to product development. The Company expenses development costs as they occur. The Company intends to work closely with prospective customers to determine design, possible enhancements and modifications.

Immediate Plans

The Company intends to continue the research and development of its technologies, primarily focusing on its Bladeless Turbine and Alternate Solar Energy Thermal System over the next twelve months. The Company intends to have its Alternate Solar Energy Thermal System, which utilizes the Bladeless Turbine, fully operational in the next twelve months. The Company plans to broadly market the technology to companies seeking alternative energy sources.

Renewable Energy Development Corporation ("REDCO"), an unrelated third party, pursuant to an executed twenty year Power Purchase Agreement ("PPA") with the Needles Public Utility Authority, will develop and operate a 5-megawatt solar thermal power plant in Needles, CA to provide the city with power and the required Renewable Energy Certificates. REDCO plans to purchase the Company's solar thermal equipment, including turbines, to build and operate the 5-megawatt solar thermal power plant. REDCO is in the planning stages of a 49-megawatt solar project in Needles and plans to add an additional 150-200 megawatts over the next 3-5 years; REDCO is currently in discussions with several potential power purchasers for these projects. REDCO plans to utilize the Company's solar thermal technology on all of its planned solar projects in Needles.

Acquisition of Technology

In May 2004, the Company entered into an agreement with its president, in which the Company acquired from the president patents, patents pending, designs and contracts related to the bladeless turbine, solar and chemical thermal technologies and electronic shelf tag technology developed by the president. As consideration for these patents, patents pending, designs and contracts, the Company issued warrants to purchase 100,000,000 shares of common stock and agreed to pay the president a 10% royalty of total gross sales of products related to the patents.

Government Regulation

The Company's activities may be subject to government regulation. Depending on the nature of its activities in data transmission and power production, the Company may need approval or authorization from Federal, State or Local authorities.

ITEM 1A. RISK FACTORS

You should carefully consider the risks, uncertainties and other factors described below, in addition to the other information set forth in this Annual Report on Form 10-K, because they could materially and adversely affect our business, operating results, financial condition, cash flows and prospects, as well as adversely affect the value of an investment in our Common Stock. Also, you should be aware that the risks and uncertainties described below are not the only ones facing us. Additional risks and uncertainties that we do not yet know of, or that we currently think are immaterial, may also impair our business operations. You should also refer to the other information contained in and incorporated by reference into this Annual Report on Form 10-K, including our financial statements and the related notes. The Company's business operations are highly speculative and involve substantial risks. Only investors who can bear the risk of losing their entire investment should consider buying our shares. Some of the risk factors that you should consider are the following:

The Company is in the Development Stage

The Company is a development stage company. The Company has limited assets and has had limited operations since inception. The Company can provide no assurance that its current and proposed business will produce any material revenues or that it will ever operate on a profitable basis.

We Have a History of Significant Losses, and We May Never Achieve or Sustain Profitability

We are focused on product development and have generated minimal revenues of \$111,226. Since inception, we have incurred operating losses each year of our operations and we expect to continue to incur operating losses for the next several years. We may never become profitable. The process of developing our products requires significant development. In addition, commercialization of our targeted products will require the establishment of sales, marketing and manufacturing capabilities, either through internal hiring or through contractual relationships with others. We expect our research and development and general and administrative expenses will increase over the next several years and, as a result, we expect our losses will increase. As of June 30, 2010, our cumulative net loss was \$38,859,397. Our net loss was \$3,524,780 for the fiscal year ended June 30, 2010. Our continued operational loss may lower the value of our common stock and may jeopardize our ability to continue our operations.

The Company May Experience Fluctuations in Operating Results

The Company's operating results are likely to fluctuate in the future as a result of a variety of factors. Some of these factors may include economic conditions; the amount and timing of the receipt of sale of the Company's current developments such as the solar lens; the success of the Company's development projects; the success of the Company's marketing strategy; capital expenditures and other costs relating to the development of the Company's products; and the cost of advertising and related media. Due to all of the foregoing factors, the Company's operating results in any given quarter may fall below expectations. In such an event, any future trading price of the Company's common stock would likely be materially and adversely affected.

The Company's Business Model May Change or Evolve

The Company and its prospects must be considered in light of the risks, as identified in the Risk Factors section of this filing, expenses and difficulties frequently encountered by companies in the development stage. Such risks for the Company include, but are not limited to, an evolving business model. To address these risks the Company must, among other things, develop strong business development and management activities, develop the strength and quality of its operations, develop and produce high quality products that can be marketed and distributed. There can be no assurance that the Company will be successful in meeting these challenges and addressing such risks, and the failure to do so could have a material adverse effect on the Company's business, financial condition and result of operations.

The Company's Auditors Opinion Expresses Doubt About the Company's Ability to Continue as a Going Concern

The independent auditor's report issued in connection with the audited financial statements of the Company for the period ended June 30, 2010, expresses "substantial doubt about its ability to continue as a going concern," due to the Company's status as a development stage company and its lack of significant operations. If the Company is unable to get its solar thermal energy technology operational, the Company may have to cease to exist, which would be detrimental to the value of the Company's common stock. The Company can make no assurances that its business operations will develop and provide the Company with significant cash to continue operations.

Customers with Deposits May Request a Return of Their Deposits

The Company has received deposits from customers to purchase its Alternate Solar Thermal Energy System totaling \$2,360,250. The agreements provide that the Company will deliver, install and startup the System on or prior to June 30, 2010. The Company has delivered, installed and started up the Systems, but the energy output has not been verified. Therefore, for these agreements, the customers could request a return of their deposits since the Company has not verified the energy output. If many of the customers request a return of their deposits, the Company may not have sufficient funds to return the deposits.

The Company May Need Future Capital and May Not be Able to Obtain Additional Financing

The Company may need future capital and may not be able to obtain additional financing. If additional funds are needed, funds may be raised as either debt or equity. There can be no assurance that such additional funding will be available on terms acceptable to the Company, or at all. The Company may be required to raise additional funds through public or private financing, strategic relationships or other arrangements. There can be no assurance that such additional funding, if needed, will be available on terms acceptable to the Company, or at all. If adequate funds are not available on acceptable terms, the Company may be unable to develop or enhance its services and products, take advantage of future opportunities or respond to competitive pressures, any of which could have a material adverse effect on its business, financial condition, results of operations and prospects.

Future Capital Raised Through Equity Financing May be Dilutive to Stockholders

Any additional equity financing may be dilutive to stockholders. If additional funds are raised through the issuance of equity securities, the percentage ownership of the stockholders of the Company will be reduced, stockholders may experience additional dilution in net book value per share and such equity securities may have rights, preferences or privileges senior to those of the holder of the Company's common stock.

Future Debt Financing May Involve Restrictive Covenants that May Limit the Company's Operating Flexibility

Furthermore, a debt financing transaction, if available, may involve restrictive covenants, which may limit the Company's operating flexibility with respect to certain business matters. If additional funds are raised through debt financing, the debt holders may require the Company to make certain agreements, covenants, which could limit or prohibit the Company from taking specific actions, such as establishing a limit on further debt, a limit on dividends, limit on sale of assets, or specific collateral requirements. Furthermore, if the Company raises funds through debt financing, the Company would also become subject to increased interest and principal payment obligations. In either case, if the Company was unable to fulfill either the covenants or the financial obligations, the Company may risk defaulting on the loan, whereby ownership of the firm's assets could be transferred from the shareholders to the debt holders.

Executive Management has Limited Management Experience of an Operating Company

The Company's officers have limited experience in managing an operating company. If the Company develops a marketable product, this lack of experience may make it more difficult to establish the contacts and relationships and implement operating procedures necessary to successfully operate the Company.

The Company's Success is Dependent on Management

The Company's success is dependent, in large part, on the active participation of its Executive Officers. The loss of their services would materially and adversely affect the Company's development activities and future business success.

The Company's Success is Dependent on our Patents and Proprietary Rights

The Company's future success depends in part on our ability to protect our intellectual property and maintain the proprietary nature of our technologies through a combination of patents and other intellectual property arrangements. The protection provided by our patents and patent applications, if issued, may not be broad enough to prevent competitors from introducing similar products. In addition, our patents, if challenged, may not be upheld by the courts of any jurisdiction. Patent infringement litigation, either to enforce our patents or to defend us from infringement suits, would be expensive and, if it occurs, could divert our resources from other planned uses. Any adverse outcome in such litigation could have a material adverse effect on our ability to market, sell or license the related products. Patent applications filed in foreign countries and patents in such countries are subject to laws and procedures that differ from those in the U.S. Patent protection in such countries may be different from patent protection under U.S. laws and may not be as favorable to us. We also attempt to protect our proprietary information through the use of confidentiality agreements and by limiting access to our facilities. There can be no assurance that our program of patents, confidentiality agreements and restricted access to our facilities will be sufficient to protect our proprietary technology.

Executive Officers Maintain Significant Control Over the Company and its Assets

Our executive officers maintain control over the Company's board of directors and also control the Company's business operations and policies. In addition, Neldon Johnson, the Company's President, and two of his sons, Randale Johnson and LaGrand Johnson, control approximately 85% of the voting rights of the Company. As a result, these three individuals will be able to exercise significant influence over all matters requiring stockholder approval, including the election of directors and approval of significant corporate transactions.

The Company is Unlikely to Pay Dividends in the Foreseeable Future

It is unlikely that the Company will pay dividends on its common stock in the foreseeable future, resulting in an investor's only return on an investment in the Company's common stock being the appreciation of the per share price. The Company can make no assurances that the Company's common stock will ever appreciate.

Risks of "Penny Stock"

Our common stock may be deemed to be "penny stock" as that term is defined in Rule 3a51-1 of the SEC. Penny stocks are stocks (i) with a price of less than five dollars per share; (ii) that are not traded on a "recognized" national exchange; (iii) whose prices are not quoted on the NASDAQ automated quotation system (NASDAQ-listed stocks must still meet requirement (i) above); or (iv) in issuers with net tangible assets less than \$2,000,000 (if the issuer has been in continuous operation for at least three years); or \$5,000,000 (if in continuous operation for less than three years); or with average revenues of less than \$6,000,000 for the last three years.

Section 15(g) of the Exchange Act and Rule 15g-2 of the SEC require broker dealers dealing in penny stocks to provide potential investors with a document disclosing the risks of penny stocks and to obtain a manually signed and dated written receipt of the document before effecting any transaction in a penny stock for the investor's account. Potential investors in our common stock are urged to obtain and read such disclosure carefully before purchasing any shares that are deemed to be "penny stock."

Moreover, Rule 15g-9 of the SEC requires broker dealers in penny stocks to approve the account of any investor for transactions in such stocks before selling any "penny stock" to that investor. This procedure requires the broker-dealer to (i) obtain from the investor information concerning his, her or its financial situation, investment experience and investment objectives; (ii) reasonably determine, based on that information, that transactions in penny stocks are suitable for the investor, and that the investor has sufficient knowledge and experience as to be reasonably capable of evaluating the risks of penny stock transactions; (iii) provide the investor with a written statement setting forth the basis on which the broker-dealer made the determination in (ii) above; and (iv) receive a signed and dated copy of such statement from the investor, confirming that it accurately reflects the investor's financial situation, investment experience and investment objectives. Compliance with these requirements may make it more difficult for investors in our common stock to resell their shares to third parties or to otherwise dispose of them.

No Assurance of a Liquid Public Market for our Common Stock.

There can be no assurance as to the depth or liquidity of any market for our common stock or the prices at which holders may be able to sell their shares. As a result, an investment in our common stock may not be totally liquid, and investors may not be able to liquidate their investment readily or at all when they need or desire to sell.

ITEM 2. DESCRIPTION OF PROPERTIES

The Company's principal executive offices are located at 326 North SR 198, Salem, Utah 84653. The Company rents the office space from its president at a cost of \$6,000 per month and from a third party at a cost of \$6,200 per month. The monthly rent includes a 200 square foot office space, plus additional store front and warehouse space. Our primary use of this the space is for offices.

The Company owns approximately 600 acres of land in Delta, Utah which was purchased in August 2006. The Company is currently building a solar energy plant on the land utilizing its Systems. The Company also entered into a lease agreement in November 2006 for research and development space in Delta, Utah, to be close to where it is building its Systems. The lease expires in November 2016 and requires annual lease payments of \$7,500.

The Company also owns approximately 6 acres of land in California. This land is currently not being used, but the Company plans to build a small energy plant utilizing the System. Permits will need to be obtained prior to utilizing this land for this purpose.

The Company believes that its current office and research and development space will be adequate to meet current needs. The Company may, however, require additional facilities in the future depending upon being able to produce and market its solar energy technology system.

ITEM 3.LEGAL PROCEEDINGS

The Company is a party to one lawsuit that it believes will have an immaterial effect on our operations, even if the Company does not prevail. Litigation to enforce patents, to protect proprietary information or to defend the Company against alleged infringement of the rights of others may occur. Such litigation would be costly, could divert our resources from other planned activities, and could have a material adverse effect on our results of operations and financial condition.

ITEM 4. RESERVED**PART II****ITEM 5. MARKET FOR COMMON EQUITY AND RELATED STOCKHOLDER MATTERS**

Presently Registrant's common stock is traded on the NASD Electronic Bulletin Board under the symbol "IAUS". The table below sets forth the closing high and low bid prices at which the Company's shares of common stock were quoted during the quarters indicated. The trades are in U. S. dollars but may be inter-dealer prices without retail mark-up, mark-down or commission and may not necessarily represent actual transactions in the common stock.

Fiscal 2010	<u>High</u>	<u>Low</u>
June 30, 2010	\$0.30	\$0.21
March 31, 2010	\$0.48	\$0.25
December 31, 2009	\$0.46	\$0.32
September 30, 2009	\$0.64	\$0.40
Fiscal 2009	<u>High</u>	<u>Low</u>
June 30, 2009	\$0.69	\$0.38
March 31, 2009	\$0.67	\$0.22
December 31, 2008	\$0.40	\$0.18
September 30, 2008	\$0.50	\$0.34

The Company's shares are significantly volatile and subject to broad price movements and fluctuations. The Company's shares should be considered speculative and volatile securities. The stock price may also be affected by broader market trends unrelated to the Company's activities.

At June 30, 2010, the Company had approximately 993 shareholders of record.

As of June 30, 2010, Registrant had 37,037,153 shares issued and outstanding, net of 3,538,118 held in an escrow account. Of these shares, approximately 31,667,000 shares were free trading shares. There were approximately 5,284,000 shares of restricted common stock but most of these shares may be available for resale pursuant to the provisions of Rule 144 promulgated under the 1933 Act. As of June 30, 2010, at least 100 shareholders hold not less than 1,000 restricted shares of common stock and have held the shares for more than one year. At least twenty-five shareholders own not less than 10,000 or more restricted shares of common stock and have held the shares for more than six months. These shareholders satisfy the six month holding period under Rule 144 promulgated under the 1933 Act. Rule 144(k) allows a restricted legend to be removed after one year has elapsed from the date of purchase and provides that certain provisions of Rule 144 are not applicable.

Sales pursuant to the provisions of Rule 144 sold into the trading market could adversely affect the market price. The Company's shares trade on the Over-the-counter Electronic Bulletin Board. The per share price in an auction market is based in part on supply and demand. If more shares are available for sale into the market by holders of restricted shares who satisfy the conditions of Rule 144 and in particular subsection 144(k), the market price of the shares of common stock of the Company will be adversely affected.

Dividend Policy

To date, registrant has not declared or paid any dividends to holders of its common stock. In the future it is unlikely that the Company will pay any dividends.

Recent Sales of Unregistered Securities

During the period covered by this report the Company issued 1,000,000 shares of common stock to the Company's president upon the exercise of options. In lieu of payment for the options, the Company and its president settled \$400,000 in related party payables. The Company also sold 429,131 shares of restricted common stock to employees for \$88,000 and granted 300,000 shares of restricted stock, valued at \$105,000, to employees as stock-based compensation.

We issued all of these securities to persons who were "accredited investors", as those terms are defined in Rule 501 of Regulation D of the Securities and Exchange Commission, or employees; and each such person had prior access to all material information about us. We believe that the offer and sale of these securities were exempt from the registration requirements of the Securities Act, pursuant to Sections 4(2) and 4(6) thereof, and Rule 506 of Regulation D of the Securities and Exchange Commission. Registration of sales to "accredited investors" are preempted from state regulation, though states may require the filing of notices, a fee and other administrative documentation like consents to service of process and the like.

Resales of the shares noted above must be made through an available exemption such as Rule 144 or Section 4(1) of the Securities Act in "routine trading transactions." Any person who acquires any of these securities in a private transaction may be subject to the same resale requirements. (See below for a general discussion on Rule 144).

Rule 144

The following is a summary of the current requirements of Rule 144:

	<u>Affiliate or Person Selling on Behalf of an Affiliate</u>	<u>Non-Affiliate (and has not been an Affiliate During the Prior Three Months)</u>
Restricted Securities of Reporting Issuers	<p><u>During six-month holding period</u> – no resales under Rule 144 Permitted.</p> <p><u>After Six-month holding period</u> – may resell in accordance with all Rule 144 requirements including:</p> <ul style="list-style-type: none"> •Current public information, •Volume limitations, •Manner of sale requirements for equity securities, and •Filing of Form 144. 	<p><u>During six- month holding period</u> – no resales under Rule 144 permitted.</p> <p><u>After six-month holding period but before one year</u> – unlimited public resales under Rule 144 except that the current public information requirement still applies.</p> <p><u>After one-year holding period</u> – unlimited public resales under Rule 144; need not comply with any other Rule 144 requirements.</p>
Restricted Securities of Non-Reporting Issuers	<p><u>During one-year holding period</u> – no resales under Rule 144 permitted.</p> <p><u>After one-year holding period</u> – may resell in accordance with all Rule 144 requirements including:</p> <ul style="list-style-type: none"> •Current public information, •Volume limitations, •Manner of sale requirements for equity securities, and •Filing of Form 144. 	<p><u>During one-year holding period</u> – no resales under Rule 144 permitted.</p> <p><u>After one-year holding period</u> – unlimited public resales under Rule 144; need not comply with any other Rule 144 requirements.</p>

ITEM 6. SELECTED FINANCIAL DATA

The following selected financial data should be read in conjunction with “Item 7 - Management’s Discussion and Analysis of Financial Condition and Results of Operations” and “Item 8 - Financial Statements and Supplementary Data.”

	<u>June 30, 2010</u>	<u>June 30, 2009</u>
Results of Operations:		
Revenue	\$ -	\$ -
Loss from operations	(3,515,516)	(6,627,114)
Other income (expenses)	(9,264)	(10,223)
Net loss	(3,524,780)	(6,637,337)
Basic and diluted net loss per share	(0.10)	(0.20)
Cash Flow and Balance Sheet Data:		
Net cash used in operating activities	\$ (770,443)	\$ (843,908)
Cash	6,865	47,537
Total Assets	1,018,300	1,029,603
Total Current Liabilities	3,343,810	2,913,638
Accumulated deficit	(38,859,397)	(35,334,617)
Total Stockholders' deficit	(2,409,344)	(1,980,717)

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OR PLAN OF OPERATIONSGeneral

The following discussion and analysis provides information which management believes is relevant to an assessment and understanding of the Company’s results of operations and financial condition. The discussion should be read in conjunction with the financial statements and notes thereto. This discussion contains forward looking statements regarding the Company's plans, objectives, expectations and intentions. All forward looking statements are subject to risks and uncertainties that could cause the Company's actual results and experience to differ materially from such projections.

Historically, the Company's activities have been dominated by its research and development activities. As a result, there have not been revenues associated with operations. The Company has limited experience regarding profit margins or costs associated with operating a business.

Plan of Operation

The Company’s plan of operation for the next 12 months is to: (i) continue to build its alternate thermal solar energy system and get the system operational to begin producing saleable energy; (ii) market and sell the alternate thermal solar energy system to entities who desire to produce solar energy; and (iii) continue to develop marketable products for its technologies.

During the next 12 months, additional financing will be required to fund the building of the alternate solar energy system and the development of marketable products. To date, the Company has primarily financed operations by the receipt of advances from the Company’s president, deposits from customers for the alternate thermal solar energy system and through the private placement of equity securities. The president and the Company have no formal agreement as to any future advances. However, it is anticipated that the Company will continue to receive additional financing from receipt of advances from its president to help fund continuing operations. The Company also anticipates receiving additional financing through the private placement of equity securities.

The Company does not expect a significant change in the number of employees during the next 12 months. However, if the Company is successful in getting the alternate thermal solar energy system operational, additional employees may be necessary depending on the demand for the System and how the Company determines to produce the System. The Company plans to evaluate the possibility of contracting with suppliers to produce and install the systems.

Results of Operations

Fiscal year ended June 30, 2010 compared to fiscal year ended June 30, 2009

The Company has not generated a profit since inception. Operations during the years ended June 30, 2010 and 2009, primarily pertained to research and development and other activities. Research and development expenses decreased by \$211,339 or 30% from \$704,889 in fiscal year 2009 to \$493,550 primarily due to purchasing less research and development materials to develop the alternate thermal solar energy system and bladeless turbine during the fiscal year 2010 as compared to fiscal year 2009.

General and administrative expenses decreased by \$2,900,259 or 49% from \$5,922,225 in fiscal year 2009 to \$3,021,966 in fiscal year 2010. The decrease in general and administrative expenses is primarily attributable to many options fully vesting in fiscal year 2009 resulting in a decrease in stock-based compensation for fiscal year 2010. Stock-based compensation decreased by \$2,533,766 from fiscal year 2010 as compared to fiscal year 2009. Additionally, legal expenses decreased significantly in 2010 as compared to 2009 due primarily to the Company's patent claim being settled in 2009.

Total revenue and cost of sales were \$0 for fiscal years 2010 and 2009. Other expenses remained relatively constant in fiscal years 2010 and 2009. Net loss decreased by \$3,112,557 from \$6,637,337 in fiscal year 2009 to \$3,524,780 in fiscal year 2010 primarily related to the decrease in stock-based compensation.

Liquidity and Capital Resources

Historically, our principal use of cash has been to fund ongoing research and development activities. To date, we have primarily financed our operations by the receipt of loan advances from the Company's president and through the private placement of equity securities. The president and the Company have no formal agreement as to any future loans or advances. The Company has no line of credit with any financial institution. The Company believes that until it has consistent operations and revenues, it will be unable to establish a line of credit from conventional sources.

The Company's liquidity is substantially limited given the current rate of expenditures. More funds will be required to support ongoing product development, finance any marketing programs and establish any distribution networks. The Company had \$6,865 in cash as of June 30, 2010, representing a decrease of \$40,672 from June 30, 2009. The decrease relates to net cash used in operations and investing of \$770,443 and \$17,599, respectively, offset by net cash provided by financing activities of \$747,370.

As of June 30, 2010, the Company has current assets of \$8,865 and total assets of \$1,018,300. Current liabilities were \$3,343,810 and total liabilities of \$3,427,644. The ratio of current assets to current liabilities is approximately 0.003. If the Company continues to have a negative cash flows or if the Company is unable to generate sufficient revenues to meet its operating expenses, the Company will continue to experience liquidity difficulties.

Stock issuance

The Company has shares of common stock in escrow accounts. Proceeds from the sale of stock from these escrow accounts are placed in separate escrow accounts to be used at the Company's and the trustee's discretion. During the year ended June 30, 2010, 806,700 shares were sold for proceeds of \$300,230 at prices ranging from \$0.22 to \$0.62 per share. During the year ended June 30, 2009, 1,245,000 shares were sold for proceeds of \$432,502 at prices ranging from \$0.16 to \$0.67 per share. The proceeds were used to pay professional fees, rent, operating expenses and accrued liabilities. At June 30, 2010 and 2009, there was a balance of 3,538,118 and 4,344,818 shares, respectively, in the escrow accounts. During the year ended June 30, 2010, the Company also sold 429,131 shares of common stock at a 25% discount to employees for \$88,000.

Critical Accounting Policies

The Company's significant accounting policies are discussed in Note 1 to the Financial Statements. The application of certain policies requires significant judgments or an estimation process that can affect our results of operations, financial position and cash flows, as well as the related footnote disclosures. We base our estimates on historical experience and other assumptions, as discussed below, that we believe is reasonable. If actual amounts are ultimately different from previous estimates, the revisions are included in our results of operations for the period in which the actual amounts become known. The accounting policies and estimates with the greatest potential to have a significant impact on our operating results, financial position, cash flows and footnote disclosures are as follows.

Long-Lived Assets

The Company regularly evaluates whether events or circumstances have occurred that indicate the carrying value of its long-lived assets may not be recoverable. When factors indicate the asset may not be recoverable, we compare the related undiscounted future net cash flows to the carrying value of the asset to determine if impairment exists. If the expected future net cash flows are less than the carrying value, an impairment charge is recognized based on the fair value of the asset. The estimates of future cash flows involve considerable management judgment and are based upon assumptions about expected future operating performance. The actual cash flows could differ from management's estimates due to changes in business conditions, operating performance and economic conditions. Furthermore, the Company makes periodic assessments about each patent and related technology to determine if it plans to continue to pursue the technology and if the patent has value. No impairments were recorded during the years ended June 30, 2010 and 2009, respectively.

Stock-Based Compensation

The Company measures compensation expense for granted share-based awards at fair value and recognizes compensation expense over the service period for awards expected to vest. The estimation of stock awards that will ultimately vest requires judgment, and to the extent actual results differ from estimates, such amounts will be recorded as an adjustment in the period estimates are revised. The Company considers many factors when estimating expected forfeitures, including types of awards, employee class and historical experience. Actual results may differ from these estimates.

Contractual Obligations and Commitments

The following table summarizes our contractual obligations as of June 30, 2010 and the effect such obligations and commitments are expected to have on our liquidity and cash flow in future periods:

<u>Contractual Obligations</u>	<u>Payments due by Fiscal Year</u>						<u>Total</u>
	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>Thereafter</u>	
Long-term debt arrangements (1)	\$ 30,881	\$ 13,604	\$ 14,555	\$ 15,575	\$ 16,665	\$ 23,435	\$ 114,715
Operating leases (2)	7,500	7,500	7,500	7,500	7,500	10,000	47,500
Total contractual obligations	<u>\$ 38,381</u>	<u>\$ 21,104</u>	<u>\$ 22,055</u>	<u>\$ 23,075</u>	<u>\$ 24,165</u>	<u>\$ 33,435</u>	<u>\$ 162,215</u>

(1) The Company has two notes payable to financing companies due in annual installments that are collateralized by land and both mature in fiscal year 2017. The Company also has a note payable for equipment maturing in fiscal 2011.

(2) The Company entered into a lease agreement for research and development space in October 2006. The term of this lease is from November 1, 2006 to November 1, 2016.

The Company's board of directors authorized the Company to enter into an agreement dated May 14, 2004 and amended October 13, 2004, with the Company's president, in which the Company acquired patents, patents pending, designs and contracts related to certain technology developed by the president from the president. As consideration, the Company authorized and issued warrants to purchase 100,000,000 shares of common stock to the president and agreed to pay the president royalties in the future equal to 10% of future sales proceeds from the technology.

The Company's president has also entered into several solar lease bonus fee contracts with many of the customers who made deposits on the alternate solar energy system discussed further in Note 1 and Note 10 to the financial statements. As additional consideration for making the deposit and making the alternate solar energy system available to the Company as a reference for marketing and sales purposes to show and demonstrate, the Company's president has agreed to pay many of the customers a referral fee of .009% on the first one billion dollars of total gross sales revenue received by the Company for the sale of power generation equipment. The Company's president will be obligated to pay this bonus fee if the Company is able to produce and then sell its alternate solar energy system. The Company's president plans to pay this fee from his future royalties mentioned in the above paragraph.

Off-Balance Sheet Arrangements

We do not have any off-balance sheet arrangements that have or are reasonably likely to have a current or future effect on our financial condition, results of operations or cash flows.

Recent Accounting Pronouncements

In June 2009, the FASB issued guidance under SFAS No. 166, "Accounting for Transfers of Financial Assets – an amendment of FASB Statement No. 140" ("SFAS 166"), which was subsequently codified into ASC Topic 860. SFAS 166 amends SFAS 140 by including: the elimination of the qualifying special-purpose entity (QSPE) concept; a new participating interest definition that must be met for transfers of portions of financial assets to be eligible for sale accounting; clarifications and changes to the derecognition criteria for a transfer to be accounted for as a sale; and a change to the amount of recognized gain or loss on a transfer of financial assets accounted for as a sale when beneficial interests are received by the transferor. Additionally, the standard requires extensive new disclosures regarding an entity's involvement in a transfer of financial assets. Finally, existing QSPEs (prior to the effective date of SFAS 166) must be evaluated for consolidation by reporting entities in accordance with the applicable consolidation guidance upon the elimination of this concept. This guidance is effective for the Company beginning on July 1, 2010. The Company does not expect the adoption of this guidance to have material impact on its financial statements.

In June 2009, the FASB issued guidance under SFAS No. 167, "Amendments to FASB Interpretation No. 46(R)", which was subsequently codified into ASC Topic 810. Among other items, this guidance responds to concerns about the application of certain key provisions of FIN 46(R), including those regarding the transparency of the involvement with variable interest entities. This guidance is effective for the Company beginning on July 1, 2010. The Company does not expect the adoption of this guidance to have material impact on its financial statements.

In October, 2009, the FASB issued ASC Update 2009-13, "Multiple-Deliverable Revenue Arrangements" ("ASC Update 2009-13"). This guidance provides amendments to the criteria in Subtopic 605-24 for separating consideration in multiple-deliverable revenue arrangements. It establishes a hierarchy of selling prices to determine the selling price of each specific deliverable which includes vendor-specific objective evidence (if available), third-party evidence (if vendor-specific evidence is not available) or estimated selling price if neither of the first two are available. The guidance also eliminates the residual method for allocating revenue between the elements of an arrangement and requires that arrangement consideration be allocated at the inception of the arrangement. Finally, the guidance expands the disclosure requirements regarding a vendor's multiple-deliverable revenue arrangements. ASC Update 2009-13 should be applied on a prospective basis for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010. The Company does not expect the adoption of this guidance to have material impact on its financial statements.

In October, 2009, the FASB issued ASC Update 2009-14, "Certain Revenue Arrangements That Include Software Elements" ("ASC Update 2009-14"). This guidance amends existing guidance to exclude tangible products that include software and non-software components that function together to deliver the product's essential functionality. ASC Update 2009-14 shall be applied on a prospective basis for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010. The Company does not expect the adoption of this guidance to have material impact on its financial statements.

The Company has reviewed all other recently issued, but not yet adopted, accounting standards in order to determine their effects, if any, on its results of operation, financial position or cash flows. Based on that review, the Company believes that none of these pronouncements will have a significant effect on its financial statements.

ITEM 8. FINANCIAL STATEMENTS

The financial statements required by this item are after the signature pages.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None

ITEM 9A(T). CONTROLS AND PROCEDURES**Evaluation of Disclosure Controls and Procedures**

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act")) as of the end of the period covered by this report. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures as of the end of the period covered by this report were effective such that the information required to be disclosed by us in reports filed under the Securities Exchange Act of 1934 is (i) recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and (ii) accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding disclosure. A controls system cannot provide absolute assurance, however, that the objectives of the controls

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system are met, and no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within a company have been detected.

Management's Annual Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Rule 13a-15(f) under the Exchange Act). Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes of accounting principles generally accepted in the United States.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Therefore, even those systems determined to be effective can provide only reasonable assurance of achieving their control objectives.

Our management, with the participation of the Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of the Company's internal control over financial reporting as of June 30, 2010. In making this assessment, our management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control — Integrated Framework. Based on this evaluation, our management, with the participation of the Chief Executive Officer and Chief Financial Officer, concluded that, as of June 30, 2010, our internal control over financial reporting was effective.

This annual report does not include an attestation report of the Company's registered public accounting firm regarding internal control over financial reporting. Management's report was not subject to attestation by the Company's registered public accounting firm pursuant to rules of the Securities and Exchange Commission that permit the Company to provide only management's report in this annual report.

Changes in Internal Control Over Financial Reporting

During the most recent quarter ended June 30, 2010, there has been no change in our internal control over financial reporting (as defined in Rule 13a-15(f) and 15d-15(f) under the Exchange Act) that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

ITEM 9B. OTHER INFORMATION

None

PART III**ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE**Directors and Officers

The executive officers and directors of the Company are as follows:

<u>Name</u>	<u>Age</u>	<u>Position with the Company</u>
Neldon Johnson	64	Chairman of the Board of Directors, President and CEO
Randale Johnson	41	Secretary, Vice President
LaGrand Johnson	44	CFO
Bruce Barrett	80	Director
Blain Phillips	48	Director
Curtis Snow	44	Director

All Directors hold office until a successor has been elected. All officers are appointed by the Board of Directors and serve at the discretion of the Board until a new officer is appointed.

Directors will be reimbursed by the Company for any expenses incurred in attending Directors' meetings. The Company also intends to obtain Officers and Directors liability insurance, although no assurance can be given that it will be able to do so.

Background of Executive Officers and Directors

Neldon Johnson is the founder of the Company and the primary inventor of the bladeless turbine and solar thermal energy technologies, Self-Check system, AFIM and DWM. Mr. Johnson directs the Company's research and development program. Mr. Johnson studied physics and mathematics at Brigham Young University in Provo, Utah, and graduated from Utah Technical College's Electronics Technology Program in 1964. He has taken training courses and has taught courses in electronics programming, microwave and wave switch programs. From 1965 to 1968 he worked for American Telephone and Telegraph, Inc., as an engineer. From 1983 to the present, Mr. Johnson has been developing the bladeless turbine and solar thermal energy technologies, Self-Check System, AFIM and DWM. Also, from 1975 to 1990 he worked at a Ream's Grocery Store and had management responsibilities for operations. Mr. Johnson has real estate holdings, one of which is a building of approximately 25,000 square feet in Salem, Utah. Mr. Johnson is not currently an officer or director of any other public company nor has he ever been an officer or director of any other public company. We believe Mr. Johnson's long-standing service and extensive experience with the Company qualify him to serve as a director.

Randale P. Johnson is the son of Neldon Johnson. He has been an officer since June 1996. His responsibilities include marketing and administration. Mr. Johnson holds an associate degree in Computer Science and has four years of experience in the computer industry. He joined the Company in 1996. Mr. Johnson is not currently an officer or director of any other public company nor has he ever been an officer or director of any other public company.

LaGrand T. Johnson is the son of Neldon Johnson. He has worked with the Company since 1987 but started full time in 1996. He graduated with a Bachelor's Degree in chemistry in 1991. He received his Doctor of Osteopathy degree in 1995 from Western University of Health Sciences. He works as CFO and General Manager of the Company and in research and development. Mr. Johnson is not currently an officer or director of any other public company nor has he ever been an officer or director of any other public company.

Bruce Barrett graduated from Brigham Young University with a degree in Marketing and Business Management in 1958. After graduating he continued to work for BYU. He was Manager of Married Student Housing, Manager of Material Handling, Director of Textile Cleaning Services, and Director of Auxiliary Services before retiring in 1995. Mr. Barrett passed away in September 2010. Mr. Barrett was not an officer or director of any other public company.

Blain Phillips has been employed at Union Pacific Railroad since 1991. Mr. Phillips is not currently nor has he ever been an officer or director of any other public company.

Curtis Snow became a director in September 2010 following the passing of Mr. Barrett. Mr. Snow graduated from BYU with Bachelor of Science degree in Design Engineering Technology in 1992. He worked off and on with the Company as an employee or consultant for a period of 15 years. Mr. Snow previously served on the Company's board of directors from June 1996 to January 2006. He currently works as an employee for a company who reverse engineers aircraft parts. We believe Mr. Snow's extensive experience with the Company qualify him to serve as a director.

None of the officers or directors of the Company has during the past five years, been involved in any events such as criminal proceedings or convicted of proceedings relating to securities violations.

Corporate Governance*Nominating Committee*

We have not established a Nominating Committee because, due to our development of operations and the fact that we only have three directors and executive officers, we believe that we are able to effectively manage the issues normally considered by a Nominating Committee. Following the entry into any business or the completion of any acquisition, merger or reorganization, a further review of this issue will no doubt be necessitated and undertaken by new management.

If we do establish a Nominating Committee, we will disclose this change to our procedures in recommending nominees to our board of directors.

Audit Committee

We have not established an Audit Committee because, due to our development of operations and the fact that we only have three directors and executive officers, we believe that we are able to effectively manage the issues normally considered by an audit committee. Following the entry into any business or the completion of any acquisition, merger or reorganization, a further review of this issue will no doubt be necessitated and undertaken by new management.

Board Leadership Structure and Role in Risk Oversight

The Company's Chief Executive Officer and President currently serves as Chairman of the Board of Directors. The Board believes that combining the role of Chairman and position of CEO is appropriate to further strengthen the Company's governance structure by promoting unified leadership and direction for the Company, fostering accountability and allowing for a single, clear focus for management to execute the Company's strategy and business plans. The Company does not have a Lead Independent Director.

The Chairman of the Board of Directors oversees management of the Company's risks. The Chairman of the Board of Directors reviews reports and other information regarding the Company's liquidity, operations and compliance with corporate policies, legal and regulatory requirements, as well as the risks associated with each such matter and oversees management of financial risks and any potential conflicts of interest arising from related party transactions.

ITEM 11. EXECUTIVE COMPENSATION

The primary objective of the Company's compensation policy is to maintain compensation reasonably low while the Company is in the development stage and has limited financial resources. The compensation of the officers is based on the scope of their responsibilities.

The table below summarizes the total compensation paid to or earned by each of the named executive officers for the fiscal years ended June 30, 2010 and 2009.

Name and Principal Position	Fiscal Year	Salary (\$)	Bonus (\$)	Stock Awards (\$)	Option Awards (\$)	Non-Equity Incentive Plan Compensation (\$)	Nonqualified Deferred Compensation Earnings (\$)	All Other Compensation(\$)	Total (\$)
Neldon Johnson President, CEO and Director	2010	125,000	-	-	-	-	-	-	125,000
	2009	125,000	-	-	-	-	-	-	125,000
Randale Johnson Secretary and Vice President	2010	54,600	-	-	-	-	-	-	54,600
	2009	54,600	-	-	-	-	-	-	54,600
LaGrand Johnson CFO	2010	54,600	-	-	-	-	-	-	54,600
	2009	44,100	-	-	-	-	-	-	44,100

Employment Agreements

The Company has entered into an agreement with Neldon Johnson to act as President and CEO of the Company for a period of ten years starting in July 2000. Per the agreement, Neldon is to be paid \$100,000 per annum and shall increase each calendar year by the percentage increase in the Consumer Price Index. Neldon may terminate the agreement, but must give the Company 6 months advance notice. The Company can not voluntarily terminate Neldon's employment for any reason. No additional payments are outlined in the agreement for a change in control. No new employment agreement has yet been entered into between the Company and its president.

Outstanding Equity Awards at Fiscal Year-End

(a) Name	Option Awards					Stock Awards			
	(b) Number of Securities Underlying Unexercised Options (#) Exercisable	(c) Number of Securities Underlying Unexercised Options (#) Unexercisable	(d) Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Unearned Options (#)	(e) Option Exercise Price (\$)	(f) Option Expiration Date	(g) Number of Shares or Units of Stock That Have Not Vested	(h) Market Value of Shares or Units of Stock That Have Not Vested	(i) Equity Incentive Plan Awards: Number of Unearned Shares, Units or Other Rights That Have Not Vested	(j) Equity Incentive Plan Awards: Market or Payout Value of Unearned Shares, Units or Other Rights That Have Not Vested
Neldon Johnson	93,300,000	—	—	\$0.40	12/31/2034	—	—	—	—
Randale Johnson	500,000 (1)	—	—	\$3.00	8/22/2010	—	—	—	—
LaGrand Johnson	500,000 (1)	—	—	\$3.00	8/22/2010	—	—	—	—

(1) These options expired unexercised on August 24, 2010.

Compensation of Directors

The Company's Directors currently are not compensated for their time and there are no payment arrangements. The Company anticipates that it will need to compensate Directors at some point in the future.

ITEM. 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth certain information known to the Company regarding beneficial ownership of the Company's Common Stock as of June 30, 2010, by (i) each person known by the Company to own, directly or beneficially, more than 5% of the Company's Common Stock, (ii) each of the Company's directors, and (iii) all officers and directors of the Company as a group. Except as otherwise indicated, the Company believes that the beneficial owners of the Common Stock listed below, based on information furnished by such owners, have sole investment and voting power with respect to such shares, subject to community property laws, where applicable.

Beneficial ownership is determined in accordance with the rules of the SEC. In computing the number of shares beneficially owned by a person or a group and the percentage ownership of that person or group, shares of our common stock issuable currently or within 60 days of June 30, 2010, upon exercise of options or warrants held by that person or group is deemed outstanding. These shares, however, are not deemed outstanding for computing the percentage ownership of any other person. Except as indicated by footnote, and subject to community property laws where applicable, the stockholders named in the table below have sole voting and investment power with respect to all shares of common stock shown as beneficially owned by them. Percentage ownership is based on 36,951,439 shares of common stock outstanding as of June 30, 2010, together with applicable options and warrants for each stockholder. Unless otherwise indicated, the address of each person listed below is in the care of International Automated Systems, Inc., 326 North SR 198, Salem, Utah 84653.

<u>Name and Title</u>	<u>Shares Beneficially Owned</u>	
	<u>Number (4)</u>	<u>Percent</u>
Neldon Johnson, President, CEO and Director	94,305,020 (1)	71.9%
Randale Johnson, Secretary and Vice President	750,085 (2)	0.6%
LaGrand Johnson, CFO	800,000 (3)	0.6%
Bruce Barrett, Director	100,000	0.1%
Blain Phillips, Director	70,000	0.1%
All officers and directors as a group (5 persons)	96,025,105	73.2%

- (1) Includes warrants to purchase 93,300,000 shares of common stock exercisable as of June 30, 2010.
- (2) Includes options to purchase 500,000 shares of common stock exercisable as of June 30, 2010.
- (3) Includes options to purchase 500,000 shares of common stock exercisable as of June 30, 2010.
- (4) Does not include 2,000,000 shares of Series 1 Class A Preferred Stock held by Neldon Johnson, 1,150,000 shares of Series 1 Class A Preferred Stock held by LaGrand Johnson, or 1,150,000 shares of Series 1 Class A Preferred Stock held by Randale Johnson. Each share of the Series 1 Class A Preferred Stock has ten votes per share and votes with the shares of common stock on all matters with the exception of 1,000,000 of the Series 1 Class A Preferred Stock held by Neldon Johnson which has 100 votes per share and votes with the shares of common stock on all matters. Mr. Neldon Johnson has approximately 76%, LaGrand Johnson 5%, and Randale Johnson 5% of the voting control of the Company when the voting power of the shares of preferred stock, common stock and vested options are considered together.

Changes in Control

There are no additional present arrangements or pledges of the Company's securities which may result in a change in control of the Company. However, there are no provisions in our Articles of Incorporation or Bylaws that would delay, defer or prevent a change in control.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

On May 14, 2004, the Company entered into an agreement with Neldon Johnson, the Company's president, in which the Company acquired from Mr. Johnson patents, patents pending, designs and contracts related to the bladeless turbine, solar and chemical thermal technologies, and electronic shelf tag technology developed by Mr. Johnson. As consideration for these patents, patents pending, designs and contracts, the Company issued warrants to purchase 100,000,000 shares of common stock and 10% of total gross sales in royalties of the Company.

During the year ended June 30, 2003, the Company commenced leasing office and research and development space on a month- to-month basis from its president, for \$6,000 per month. The amount payable to the president for rent at June 30, 2010 was \$73,500.

The Company received cash advances of \$498,082 and \$557,101 from its president during the years ended June 30, 2010 and 2009. The advances are non-interest bearing, payable upon demand and included in related party payables. During the year ended June 30, 2010, the Company settled \$400,000 of the cash advances by issuing 1,000,000 shares of common stock to the president upon the exercise of warrants; and paid \$104,432 of the cash advances. The balance was \$434,032 at June 30, 2010 and is unsecured, payable on demand and non-interest bearing.

During December 2005, the Company entered into a purchase and installation contract with Solar Renewable Energy-1, LLC for a solar thermal power plant. The contract is contingent on several factors and provides for certain progress payments. As of June 30, 2010, the Company has not provided any services or equipment required under this agreement and has received no money and recognized no revenues.

Resolving Conflicts of Interest

The Company's directors must disclose all conflicts of interest and all corporate opportunities to the entire board of directors. Any transaction involving a conflict of interest will be conducted on terms not less favorable than that which could be obtained from an unrelated third party.

Director Independence

The Company has two independent directors serving on its board of directors.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

Our financial statements for the years ended June 30, 2010 and 2009 have been audited by our principal accountant, Mantyla McReynolds, LLC. Each year the Chief Executive Officer pre-approves all audit and tax related services prior to the performance of services by Mantyla McReynolds, LLC. The percentage of hours expended on the audit by persons other than full time, permanent employees of Mantyla McReynolds, LLC was zero.

Audit Fees

Aggregate fees for the year ended June 30, 2010 for professional services by Mantyla McReynolds, LLC, our principal accountant, for the audit of our annual financial statements and review of our interim financial statements were approximately \$45,040.

Aggregate fees for the year ended June 30, 2009 for professional services by Mantyla McReynolds, LLC, our principal accountant, for the audit of our annual financial statements and review of our interim financial statements were approximately \$48,325.

Audit-Related Fees

Audit-related fees, not included in the previous paragraphs, for the years ended June 30, 2010 and 2009 for assurance and related services by Mantyla McReynolds, LLC were \$0 and \$655, respectively.

Tax Fees

There were no fees for professional services by Mantyla McReynolds, LLC for tax compliance, tax advice, and tax planning. A firm, other than our principal accountant, prepares all income tax returns.

ITEM 15. EXHIBITS AND REPORTS ON FORM 8-K**a. Exhibits**

31.1 Certification by the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

31.2 Certification by the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

32.1 Certification by the Chief Executive Officer Pursuant to 18 U.S.C. Section 1350 Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

32.2 Certification by the Chief Financial Officer Pursuant to 18 U.S.C. Section 1350 Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

b. Reports on Form 8-K.

During the period ended June 30, 2006, Registrant filed two reports on Form 8-K and one report on 8-K/A.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Company has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

INTERNATIONAL AUTOMATED SYSTEMS, INC.

/s/ Neldon Johnson
NELDON JOHNSON
Title: President,
Chief Executive Officer

Date: October 13, 2010

DIRECTORS

/s/ Neldon Johnson
NELDON JOHNSON
Title: Director

Date: October 13, 2010

/s/ Blain Phillips
BLAIN PHILLIPS
Title: Director

Date: October 13, 2010

/s/ Curtis Snow
CURTIS SNOW
Title: Director

Date: October 13, 2010

INTERNATIONAL AUTOMATED SYSTEMS, INC.
(A Development Stage Company)

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Stockholders
International Automated Systems, Inc.

We have audited the accompanying balance sheets of International Automated Systems, Inc. (the Company) as of June 30, 2010 and 2009, and the related statements of operations and cash flows for the years ended June 30, 2010 and 2009 and for the period from July 1, 2006 through June 30, 2010, and the statement of stockholders' deficit for the period from July 1, 2006 through June 30, 2010. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits. The financial statements of International Automated Systems, Inc. for the period from inception [September 26, 1986] through June 30, 2005, were audited by other auditors whose report dated September 28, 2005, except for the Note 1 restatement which was dated February 20, 2006, expressed an unqualified opinion on those statements. Others audited the financial statements of the Company from inception (September 26, 1986) through June 30, 1990, whose reports dated October 21, 1988 and April 30, 1991, were qualified subject to the effects of such adjustments, if any, as might have been required had the outcome of certain uncertainties referred to in the related notes been known. Our opinion, in so far as it relates to the period from September 26, 1986 through June 30, 2005, is based solely on the reports of the other auditors.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Company has determined that it is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal controls over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Company as of June 30, 2010 and 2009 and the results of operations and cash flows for the years ended June 30, 2010 and 2009, and for the period from inception (September 26, 1986) through June 30, 2010, in conformity with accounting principles generally accepted in the United States of America.

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 1 to the financial statements, the Company has accumulated losses from inception and has negative working capital as of June 30, 2010. These factors raise substantial doubt about its ability to continue as a going concern. Management's plans in regard to these matters are also described in Note 1. The financial statements do not include any adjustments that might result from the outcome of this uncertainty.

Mantyla McReynolds, LLC

Salt Lake City, Utah
October 13, 2010

INTERNATIONAL AUTOMATED SYSTEMS, INC.
(A Development Stage Company)
Balance Sheets

	<u>June 30,</u> <u>2010</u>	<u>June 30,</u> <u>2009</u>
ASSETS		
CURRENT ASSETS		
Cash and cash equivalents	\$ 6,865	\$ 47,537
Prepaid expenses	<u>2,000</u>	<u>11,833</u>
 Total Current Assets	 <u>8,865</u>	 <u>59,370</u>
Alternate solar energy systems	537,825	413,520
Property and Equipment, net of accumulated depreciation of \$372,457 and \$291,390, respectively	402,057	481,512
Patents, net of accumulated amortization of \$26,474 and \$20,825, respectively	<u>69,553</u>	<u>75,201</u>
 TOTAL ASSETS	 <u>\$ 1,018,300</u>	 <u>\$ 1,029,603</u>
LIABILITIES AND STOCKHOLDERS' DEFICIT		
CURRENT LIABILITIES		
Accounts payable	\$ 94,525	\$ 417,136
Accrued liabilities	350,622	181,327
Related party payable - Note 3	507,532	505,382
Customer deposits - Note 8	2,360,250	1,757,250
Notes payable-current portion	<u>30,881</u>	<u>52,543</u>
 Total Current Liabilities	 <u>3,343,810</u>	 <u>2,913,638</u>
Long-term notes payable	<u>83,834</u>	<u>96,682</u>
 TOTAL LIABILITIES	 <u>3,427,644</u>	 <u>3,010,320</u>
Commitments and contingencies - Note 10		
STOCKHOLDERS' EQUITY (DEFICIT)		
Preferred stock, Class A, no par value; 22,000,000 shares authorized, 4,400,000 shares issued and outstanding	417,264	417,264
Preferred stock, Class B, no par value, 3,000,000 shares authorized, 300,000 shares issued and outstanding	-	-
Common stock, no par value, 225,000,000 shares authorized, 37,037,153 and 34,501,322 issued and outstanding, net of 3,538,118 and 4,344,818 shares held in escrow account, respectively - Note 7	36,032,789	32,936,636
Deficit accumulated during the development stage	<u>(38,859,397)</u>	<u>(35,334,617)</u>
Total Stockholders' Deficit	<u>(2,409,344)</u>	<u>(1,980,717)</u>
 TOTAL LIABILITIES AND STOCKHOLDERS' DEFICIT	 <u>\$ 1,018,300</u>	 <u>\$ 1,029,603</u>

The accompanying notes are an integral part of these financial statements

INTERNATIONAL AUTOMATED SYSTEMS, INC.
(A Development Stage Company)
Statements of Operations

	For the Years Ended		For the Period From Inception (September 26, 1986) Through June 30, 2010
	June 30,		
	2010	2009	
Revenues			
Sales	\$ -	\$ -	\$ 111,226
Income from related party	-	-	32,348
Total revenues	<u>-</u>	<u>-</u>	<u>143,574</u>
Costs of sales			
Cost of sales	-	-	81,927
Write down of carrying value of inventory	-	-	233,131
Total costs of sales	<u>-</u>	<u>-</u>	<u>315,058</u>
Gross loss	<u>-</u>	<u>-</u>	<u>(171,484)</u>
Operating expenses			
General and administrative	3,021,966	5,922,225	31,267,802
Research and development	493,550	704,889	8,116,389
Impairment of patents	-	-	140,577
License fees	-	-	270,634
Total operating expenses	<u>3,515,516</u>	<u>6,627,114</u>	<u>39,795,402</u>
Loss from operations	<u>(3,515,516)</u>	<u>(6,627,114)</u>	<u>(39,966,886)</u>
Other income (expenses)			
Loss on impairment of assets	-	-	(583)
Forfeiture of deposits	-	-	(236,803)
Interest income	91	127	26,580
Interest expense	(8,381)	(8,371)	(31,478)
Other income (expenses)	(974)	(1,979)	(32,250)
Total other income (expenses)	<u>(9,264)</u>	<u>(10,223)</u>	<u>(274,534)</u>
Loss before extraordinary gain	<u>(3,524,780)</u>	<u>(6,637,337)</u>	<u>(40,241,420)</u>
Extraordinary gain on sale of patents	<u>-</u>	<u>-</u>	<u>1,382,023</u>
Net loss	<u>\$ (3,524,780)</u>	<u>\$ (6,637,337)</u>	<u>\$ (38,859,397)</u>
Net loss per common share			
Basic and diluted	\$ (0.10)	\$ (0.20)	
Weighted average common shares outstanding			
Basic and diluted	35,572,017	32,733,279	

The accompanying notes are an integral part of these financial statements

INTERNATIONAL AUTOMATED SYSTEMS, INC.

(A Development Stage Company)

Statement of Stockholders Equity / (Deficit)

	Preferred Stock		Common Stock		Stock Purchase Rights	Deficit Accumulated During Development Stage	Total Stockholder's Deficit
	Shares	Amount	Shares	Amount			
Balance - September 26, 1986							
(Date of Inception)	-	\$ -	-	\$ -	\$ -	\$ -	\$ -
Common stock issued for cash							
September 1986 - \$0.002 per share	-	-	5,100,000	11,546	-	-	11,546
September 1988 (net of \$38,702 offering costs) - \$0.32 per share	-	-	213,065	67,964	-	-	67,964
December 1988 (net of \$6,059 offering costs) - \$0.32 per share	-	-	33,358	10,641	-	-	10,641
March 1989 (net of \$4,944 offering costs) - \$0.32 per share	-	-	27,216	8,681	-	-	8,681
June 1989 (net of \$6,804 offering costs) - \$0.32 per share	-	-	37,461	11,950	-	-	11,950
Common stock issued for services							
September 1986 - \$0.002 per share	-	-	300,000	679	-	-	679
June 1989 - \$0.32 per share	-	-	5,000	1,595	-	-	1,595
Net loss for the period from September 26, 1986 through June 30, 1990	-	-	-	-	-	(192,978)	(192,978)
Balance - June 30, 1990	-	-	5,716,100	113,056	-	(192,978)	(79,922)
Class A Preferred and Common Stock issued for technology 1990-1996-\$0.02 per share	1,000,000	292,786	6,000,000	175,672	-	-	468,458
Class A Preferred Stock issued for services							
July 2000 - \$0.001 per share	2,000,000	2,000	-	-	-	-	2,000
August 2000 - \$0.00 per share	400,000	-	-	-	-	-	-
Class B Preferred stock issued for services							
August 2000 - \$0.00 per share	300,000	-	-	-	-	-	-
Common Stock issued for cash							
January 1994 - \$0.40 per share	-	-	59,856	23,942	-	-	23,942
May 1994 - \$0.20 per share	-	-	137,500	27,500	-	-	27,500
January 1996 (net of \$24,387 offering costs) - \$3.86 per share	-	-	179,500	693,613	-	-	693,613
November 1997 - \$1.43 per share	-	-	35,000	50,000	-	-	50,000
May 1998 - \$1.20 per share	-	-	250,000	300,000	-	-	300,000
October 1999 - \$2.00 per share	-	-	50,000	100,000	-	-	100,000
September 2000 - \$1.67 per share	-	-	11,500	19,236	-	-	19,236
October through Dec 2000 - \$1.03 per share	-	-	140,100	144,546	-	-	144,546
January through March 2001 - \$1.30 per share	-	-	39,900	51,920	-	-	51,920
April through June 2001 - \$0.98 per share	-	-	120,100	117,684	-	-	117,684
July through December 2001 - \$0.86 per share	-	-	138,400	119,287	-	-	119,287
December 2001 - \$0.71 per share	-	-	28,000	20,000	-	-	20,000
January 2002 - \$1.39 per share	-	-	50,000	35,910	-	-	35,910
May through June 2002 - \$0.25 per share	-	-	500,000	125,000	-	-	125,000
Common Stock issued for services							
April 1991 - \$0.10 per share	-	-	300,000	30,000	-	-	30,000
January 1995 - \$1.00 per share	-	-	100,000	100,000	-	-	100,000
May 1997 - \$4.13 per share	-	-	14,000	57,750	-	-	57,750
June 1997 - \$2.94 per share	-	-	5,000	14,690	-	-	14,690
December 1997 - \$1.13 per share	-	-	6,000	6,750	-	-	6,750

The accompanying notes are an integral part of these financial statements

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INTERNATIONAL AUTOMATED SYSTEMS, INC.

(A Development Stage Company)

Statement of Stockholders Equity / (Deficit), continued

	Preferred Stock		Common Stock		Stock Purchase Rights	Deficit Accumulated During Development Stage	Total Stockholder's Deficit
	Shares	Amount	Shares	Amount			
October 1999 - \$1.26 per share	-	-	50,000	63,147	-	-	63,147
August 2000 - \$2.25 per share	-	-	268,000	603,000	-	-	603,000
May 2001 - \$1.12 per share	-	-	3,000	3,360	-	-	3,360
February and March 2001 - \$1.55 per share	-	-	350,000	542,500	-	-	542,500
October 2001 - \$1.44 per share	-	-	150,000	216,000	-	-	216,000
February 2002 - \$1.14 per share	-	-	25,000	28,500	-	-	28,500
Common stock issued for financing transactions							
November 2000 - \$0.90 per share	-	-	50,000	45,000	-	-	45,000
December 2000 - \$0.90 per share	-	-	10,000	9,000	-	-	9,000
January 2001 - \$0.84 per share	-	-	30,000	25,320	-	-	25,320
June 2001 - \$1.16 per share	-	-	120,000	139,200	-	-	139,200
Common stock issued to satisfy liabilities							
June 1991 - \$0.03 per share	-	-	2,700,000	78,101	-	-	78,101
Grant of stock purchase rights							
May 1994 - \$0.50 per share	-	-	-	6,750	13,500	-	6,750
June 1995 - \$3.00 per share	-	-	-	95,283	31,761	-	95,283
August 1995 - \$5.00 per share	-	-	-	25,000	5,000	-	25,000
Stock purchase rights exercised							
May 1997	-	-	36,761	-	(36,761)	-	-
June 1997	-	-	13,500	-	(13,500)	-	-
Redemption and retirement of treasury stock							
December 1991 - \$0.49 per share	-	-	(5,000)	(2,425)	-	-	(2,425)
December 1992 - \$0.49 per share	-	-	(1,856)	(900)	-	-	(900)
Adjustment for additional shares issued 1990-2002	-	-	68,973	-	-	-	-
Contributed capital - cash and settlement of liability, no shares issued, 1990-2002	-	-	-	5,762,419	-	-	5,762,419
Capital distribution of related party receivable, 1990-2002	-	-	-	(1,577,674)	-	-	(1,577,674)
Net loss for the period from July 1, 1990 through June 30, 2002	-	-	-	-	-	(8,705,191)	(8,705,191)
Balance – June 30, 2002	3,700,000	294,786	17,749,334	8,388,137	-	(8,898,169)	(215,246)
Common stock issued for cash							
July 2002 - \$0.20 per share	-	-	150,000	30,000	-	-	30,000
August 2002 - \$0.26 per share	-	-	316,000	82,000	-	-	82,000
January 2003 - \$0.32 per share	-	-	80,000	25,600	-	-	25,600
July through September 2002 - \$0.39 per share	-	-	217,000	84,204	-	-	84,204
October through December 2002 - \$0.33 per share	-	-	200,000	66,407	-	-	66,407
January through March 2003 - \$0.26 per share	-	-	150,000	38,617	-	-	38,617
April through June 2003 - \$0.24 per share	-	-	240,000	57,234	-	-	57,234
Common stock issued for services							
July 2002 - \$0.50 per share	-	-	3,806	1,903	-	-	1,903

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October 2002 - \$0.45 per share	-	-	885,000	398,250	-	-	398,250
November 2002 - \$0.35 per share	-	-	65,000	22,750	-	-	22,750
May 2003 - \$0.15 per share	-	-	10,000	1,500	-	-	1,500

The accompanying notes are an integral part of these financial statements

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INTERNATIONAL AUTOMATED SYSTEMS, INC.

(A Development Stage Company)

Statement of Stockholders Equity / (Deficit), continued

	Preferred Stock		Common Stock		Stock Purchase Rights	Deficit Accumulated During Development Stage	Total Stockholder's Deficit
	Shares	Amount	Shares	Amount			
Common stock issued as part of share value guarantee							
August through May 2003	-	-	260,000	-	-	-	-
Contributed capital - no shares issued							
July through June 2003	-	-	-	39,682	-	-	39,682
Capital distribution of related party receivable- July through June 2003	-	-	-	(52,606)	-	-	(52,606)
Net loss	-	-	-	-	-	(1,017,055)	(1,017,055)
Balance – June 30, 2003	3,700,000	294,786	20,326,140	9,183,678	-	(9,915,224)	(436,760)
Common stock issued for cash							
August 2003- \$0.50 per share	-	-	132,400	66,200	-	-	66,200
September 2003- \$0.50 per share	-	-	148,000	73,000	-	-	73,000
December 2003- \$0.25 per share	-	-	34,000	8,500	-	-	8,500
July through September 2003 - \$0.72 per share	-	-	84,000	60,880	-	-	60,880
October through December 2003 - \$0.34 per share	-	-	111,200	37,731	-	-	37,731
January through March 2004 - \$0.36 per share	-	-	91,500	32,560	-	-	32,560
April through June 2004 - \$0.38 per share	-	-	104,800	40,337	-	-	40,337
Contributed capital - no shares issued							
July through June 2004	-	-	-	98,204	-	-	98,204
Net income	-	-	-	-	-	443,183	443,183
Balance – June 30, 2004	3,700,000	294,786	21,032,040	9,601,090	-	(9,472,041)	423,835
Common stock issued for cash							
August 2004 - \$0.25 per share	-	-	132,000	32,546	-	-	32,546
July through September 2004 - average of \$0.37 per share	-	-	103,050	38,165	-	-	38,165
October through December 2004 - average of \$0.34 per share	-	-	233,200	79,201	-	-	79,201
January through March 2005 - average of \$0.47 per share	-	-	225,000	106,701	-	-	106,701
April through June 2005 - average of \$0.40 per share	-	-	170,500	66,279	-	-	66,279
Contributed capital - no shares issued							
Common stock issued for services	-	-	1,100,000	429,000	-	-	429,000
Net loss	-	-	-	-	-	(1,442,880)	(1,442,880)
Balance - June 30, 2005	3,700,000	294,786	22,995,790	10,446,859	-	(10,914,921)	(173,276)
Common stock issued for cash							
July through September 2005 - average of \$0.56 per share	-	-	722,500	407,817	-	-	407,817
October through December 2005 - average of \$0.43 per share	-	-	124,000	52,761	-	-	52,761
January through March 2006 - average of \$0.88 per share	-	-	411,900	361,140	-	-	361,140
April through June 2006 - average of \$0.69 per share	-	-	968,432	641,730	-	-	641,730

Common stock issued for services - \$0.30 per share			50,000	15,000			15,000
Common stock issued for services - \$0.34 per share	-	-	60,000	20,400	-	-	20,400
Common stock issued for settlement of debt - \$0.69 per share	-	-	200,000	138,000	-	-	138,000
Net loss	-	-	-	-	-	(1,473,256)	(1,473,256)
Balance - June 30, 2006	<u>3,700,000</u>	<u>294,786</u>	<u>25,532,622</u>	<u>12,083,707</u>	<u>-</u>	<u>(12,388,177)</u>	<u>(9,684)</u>

The accompanying notes are an integral part of these financial statements

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INTERNATIONAL AUTOMATED SYSTEMS, INC.

(A Development Stage Company)

Statement of Stockholders Equity / (Deficit), continued

	<u>Preferred Stock</u>		<u>Common Stock</u>		<u>Stock Purchase Rights</u>	<u>Treasury Stock</u>		<u>Deficit Accumulated During Development Stage</u>	<u>Total Stockholder's Deficit</u>
	<u>Shares</u>	<u>Amount</u>	<u>Shares</u>	<u>Amount</u>		<u>Shares</u>	<u>Amount</u>		
Balance - June 30, 2006	3,700,000	\$294,786	25,532,622	\$12,083,707	\$ -	- \$	-	\$ (12,388,177)	\$ (9,684)
Common stock issued for cash									
July through September 2006 – average of \$0.63 per share	-	-	143,000	89,900	-	-	-	-	89,900
October through December 2006 - average of \$0.52 per share	-	-	402,580	208,252	-	-	-	-	208,252
January through March 2007 – average of \$0.68 per share	-	-	136,920	93,309	-	-	-	-	93,309
April through June 2007 - average of \$0.74 per share	-	-	4,500	3,322	-	-	-	-	3,322
Amortization of stock- based compensation	-	-	-	6,548,839	-	-	-	-	6,548,839
Common stock issued for cash - \$0.40 per share	-	-	400,000	160,000	-	-	-	-	160,000
Options exercised for settlement of related party borrowings - \$0.40 per share	-	-	1,725,000	690,000	-	-	-	-	690,000
Treasury stock issued for settlement of debt - \$0.51 per share	-	-	-	-	-	(625,000)	(318,750)	-	(318,750)
Treasury stock issued for settlement of debt - \$0.65 per share	-	-	-	-	-	(500,000)	(325,000)	-	(325,000)
Reissuance of treasury stock for cash - \$0.86 per share	-	-	-	200,055	-	575,000	293,250	-	493,305
Net loss	-	-	-	-	-	-	-	(8,493,400)	(8,493,400)
Balance - June 30, 2007	<u>3,700,000</u>	<u>294,786</u>	<u>28,344,622</u>	<u>20,077,384</u>	<u>-</u>	<u>(550,000)</u>	<u>(350,500)</u>	<u>(20,881,577)</u>	<u>(859,907)</u>
Class A Preferred Stock issued for compensation-\$0.12 per share	1,000,000	122,478	-	-	-	-	-	-	122,478
Common stock issued for cash									
July through September 2007 - average of \$0.76 per share	-	-	24,600	18,665	-	-	-	-	18,665

October through December 2007 - average of \$0.59 per share	22,700		31,894						
January through March 2008 - average of \$0.59 per share	-	-	146,600	57,667	-	-	-	-	57,667
April through June 2008 - average of \$0.44 per share	-	-	372,200	163,182	-	-	-	-	163,182
Amortization of stock- based compensation	-	-	-	5,864,405	-	-	-	-	5,864,405
Common stock issued for cash - \$0.30 per share	-	-	150,000	45,000	-	-	-	-	45,000
Options exercised for settlement of related party borrowings - \$0.40 per share	-	-	2,000,000	800,000	-	-	-	-	800,000
Common stock issued for services - \$0.43 per share	-	-	86,000	36,980	-	-	-	-	36,980
Reissuance of treasury stock for cash - \$0.46 per share	-	-	-	(92,232)	-	550,000	350,500	-	258,268
Net loss	-	-	-	-	-	-	-	(7,815,703)	(7,815,703)
Balance - June 30, 2008	<u>4,700,000</u>	<u>417,264</u>	<u>31,146,722</u>	<u>27,002,945</u>	-	-	-	<u>(28,697,280)</u>	<u>(1,277,071)</u>
Common stock issued for cash									
July through September 2008 - average of \$0.38 per share	-	-	227,000	86,173	-	-	-	-	86,173
October through December 2008 - average of \$0.27 per share	-	-	398,900	109,385	-	-	-	-	109,385
January through March 2009 - average of \$0.27 per share	-	-	316,000	86,019	-	-	-	-	86,019
April through June 2009 - average of \$0.50 per share	-	-	303,100	150,925	-	-	-	-	150,926
Common stock issued for compensation - \$0.25 per share	-	-	505,000	126,250	-	-	-	-	126,250
Amortization of stock- based compensation	-	-	-	4,715,439	-	-	-	-	4,715,439
Common stock issued for services - \$0.59 per share	-	-	50,000	29,500	-	-	-	-	29,500
Options exercised for settlement of related party borrowings - \$0.40 per share	-	-	1,575,000	630,000	-	-	-	-	630,000
Common stock retired	-	-	(20,400)	-	-	-	-	-	-
Net loss	-	-	-	-	-	-	-	(6,637,337)	(6,637,337)
Balance - June 30,	<u>4,700,000</u>	<u>\$417,264</u>	<u>34,501,322</u>	<u>\$32,936,636</u>	\$ -	\$ -	\$ -	<u>\$ (35,334,617)</u>	<u>\$ (1,980,717)</u>

The accompanying notes are an integral part of these financial statements

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INTERNATIONAL AUTOMATED SYSTEMS, INC.
(A Development Stage Company)
Statement of Stockholders Equity / (Deficit), continued

	<u>Preferred Stock</u>		<u>Common Stock</u>		<u>Stock Purchase Rights</u>	<u>Deficit Accumulated During Development Stage</u>	<u>Total Stockholder's Deficit</u>
	<u>Shares</u>	<u>Amount</u>	<u>Shares</u>	<u>Amount</u>			
Balance – June 30, 2009	4,700,000	\$ 417,264	34,501,322	\$32,936,636	\$ -	\$ (35,334,617)	\$ (1,980,717)
Common stock issued for cash – trust accounts							
July through September 2009 – average of \$0.49 per share	-	-	164,700	81,142	-	-	81,142
October through December 2009 - average of \$0.37 per share	-	-	318,400	118,322	-	-	118,322
January through March 2010 - average of \$0.33 per share	-	-	237,100	79,088	-	-	79,088
April through June 2010 - average of \$0.25 per share	-	-	86,500	21,678	-	-	21,678
Common stock issued to employees for cash – average of \$0.21 per share	-	-	429,131	88,000	-	-	88,000
Stock-based compensation	-	-	300,000	2,307,923	-	-	2,307,923
Options exercised for settlement of related party borrowings - \$0.40 per share			1,000,000	400,000			400,000
Net loss	-	-	-	-	-	(3,524,780)	(3,524,780)
Balance – June 30, 2010	<u>4,700,000</u>	<u>\$ 417,264</u>	<u>37,037,153</u>	<u>\$36,032,789</u>	<u>\$ -</u>	<u>\$ (38,859,397)</u>	<u>\$ (2,409,344)</u>

The accompanying notes are an integral part of these financial statements

INTERNATIONAL AUTOMATED SYSTEMS, INC.
(A Development Stage Company)
Statements of Cash Flows

	For the Years Ended		For the Period From Inception (September 26, 1986) Through June 30, 2010
	June 30,		
	2010	2009	2010
Cash flows from operating activities			
Net loss	\$ (3,524,780)	\$ (6,637,337)	\$(38,859,397)
Adjustments to reconcile net loss to net cash from operating activities:			
Depreciation and amortization	101,507	94,074	677,155
Stock-based compensation	2,307,923	4,841,689	22,371,141
Forfeiture of deposits	-	-	236,803
Write down of carrying value of inventory	-	-	16,945
Write off of equipment to research and development	-	-	23,900
Loss on disposal of equipment	1,195	-	18,679
Impairment of patents and abandonment of in-process rights to technology	-	-	387,128
Extraordinary gain on sale of patents	-	-	(1,382,023)
Gain on settlement of debt	-	-	(6,123)
Stock compensation for services	-	19,667	120,247
Changes in current assets and liabilities:			
(Increase) / decrease in prepaid expenses	9,833	(2,000)	7,833
(Increase) / decrease in alternate solar energy systems	(124,305)	(261,661)	(537,825)
Increase / (decrease) in customer deposits	603,000	954,000	2,360,250
Increase / (decrease) in accounts payable	(322,611)	81,723	94,525
Increase / (decrease) in related party payable	8,500	(42,999)	73,501
Increase / (decrease) in accrued liabilities	169,295	108,936	450,621
Net cash from operating activities	<u>(770,443)</u>	<u>(843,908)</u>	<u>(13,946,640)</u>
Cash flows from investing activities			
Purchase of property and equipment	(17,599)	(23,358)	(772,135)
Purchase of rights to technology	-	-	(706,643)
Organization costs	-	-	(1,880)
Net cash advanced to related party	-	-	(1,644,988)
Commitments and contingencies	-	-	44,220
Proceeds from sale of equipment	-	-	2,500
Repayment of cash loaned to related party	-	-	53,254
Net proceeds from sale of patents	-	-	1,382,023
Net cash from investing activities	<u>(17,599)</u>	<u>(23,358)</u>	<u>(1,643,649)</u>
Cash flows from financing activities			
Proceeds from issuance of common stock	388,230	432,502	6,177,461
Proceeds from reissuance of treasury stock	-	-	751,573
Contributed capital	-	-	6,270,559
Payments for treasury stock	-	-	(3,325)
Payments for stock offering costs	-	-	(56,509)
Proceeds from cash advances from related party	498,082	557,101	2,897,203
Payments on cash advances from related party	(104,432)	(173,744)	(377,713)
Proceeds from notes payable	-	-	29,857
Payments on notes payable and capital lease obligations	(34,510)	(45,485)	(247,611)
Proceeds from related party deposits	-	-	224,400
Purchases of equipment held for distribution	-	-	(68,741)
Net cash from financing activities	<u>747,370</u>	<u>770,374</u>	<u>15,597,154</u>

Net change in cash	(40,672)	(96,892)	6,865
Cash at beginning of period	47,537	144,429	-
Cash at end of period	<u>\$ 6,865</u>	<u>\$ 47,537</u>	<u>\$ 6,865</u>

The accompanying notes are an integral part of these financial statements

INTERNATIONAL AUTOMATED SYSTEMS, INC.
(A Development Stage Company)
Statements of Cash Flows
(Continued)

	For the Years Ended	
	June 30,	
	2010	2009
Supplemental non-cash flow information		
Acquisition of property and equipment with note payable	\$ -	\$ 74,965
Settlement of borrowings from related party in exchange for exercise of options	\$ 400,000	\$ 630,000
Settlement of related party borrowings in exchange for patent rights	\$ -	\$ 86,977
Stock issued for services and included in prepaids	\$ -	\$ 9,833
Supplemental cash flow information		
Cash payments for interest	\$ 9,096	\$ 9,105
Cash payments for income taxes	\$ 100	\$ 100

The accompanying notes are an integral part of these financial statements

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International Automated Systems, Inc.
(A Development Stage Company)
Notes to the Financial Statements
June 30, 2010 and 2009

NOTE 1 – ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Organization - International Automated Systems, Inc. (the “Company” or “IAS”) was incorporated in the State of Utah on September 26, 1986. The Company’s activities to date have consisted of developing a business plan, raising capital through the issuance of debt and equity instruments, developing power generation equipment and obtaining the rights to certain technology related to an automated self check-out system for retail stores, developing other electronic security and communication equipment.

The Company is considered to be in the development stage as defined in Accounting Standards Codification (“ASC”) 915. It has yet to commence full-scale operations and continues to develop its planned principle operations.

Use of Estimates - The preparation of the financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the balance sheet and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Basis of Presentation / Going Concern - The accompanying financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the satisfaction of liabilities in the normal course of business. As of June 30, 2010, the Company had \$6,865 of available cash and a working capital deficit of \$3,334,945. For the years ended June 30, 2010 and 2009, the Company had no revenue, no operating income and used net cash for operating activities of \$770,443 and \$843,908, respectively. As of June 30, 2010 the Company’s losses accumulated from inception totaled \$38,859,397. These factors, among others, indicate that the Company may be unable to continue as a going concern for the next twelve months. The financial statements do not include any adjustments relating to the recoverability and classification of recorded asset amounts or the amount and classification of liabilities that might be necessary should the Company be unable to continue as a going concern. The Company’s ability to continue as a going concern is dependent upon its ability to obtain additional financing as may be required, and ultimately to attain sufficient cash flow from operations to meet its obligations on a timely basis. Management is in the process of negotiating various sales agreements and believes these sales will generate sufficient cash flow for the Company to continue as a going concern. If the Company is unsuccessful in these efforts and does not attain sufficient sales to permit profitable operations or if it cannot obtain sufficient additional financing, it may be required to substantially curtail or terminate its operations.

Concentration Risks - The Federal Deposit Insurance Corporation (FDIC) insures cash deposits in most general bank accounts for up to \$250,000 per institution. The Company had no cash deposits that exceeded insured amounts for the years ended June 30, 2010 and 2009, respectively.

Cash Equivalents - The Company considers all highly liquid investments with a maturity of three months or less when purchased to be cash equivalents.

Fair Value of Financial Instruments - The Company’s financial instruments consist of cash and cash equivalents, payables, and notes payable. The carrying amount of cash and cash equivalents and payables approximates fair value because of the short-term nature of these items. The carrying amount of the notes payable approximates fair value as the individual borrowings bear interest at rates that approximate market interest rates for similar debt instruments.

Impairment - The Company records impairment losses on property and equipment and patents when indicators of impairment are present and undiscounted cash flows estimated to be generated by those assets are less than the assets’ carrying amount. Furthermore, the Company makes periodic assessments about each patent and the related technology to determine if it plans to continue to pursue the technology and if the patent has value.

Property and Equipment - Property and equipment are recorded at cost and are depreciated using the straight-line method based on the expected useful lives of the assets which range from five to ten years. Depreciation expense for the years ended June 30, 2010 and 2009 was \$95,859 and \$88,425, respectively. The major classes of assets are as follows:

	<u>June 30, 2010</u>	<u>June 30, 2009</u>
Land	\$ 216,025	\$ 216,025
Computer equipment	55,433	59,956
Machinery and equipment	394,248	388,113
Trucks and autos	97,044	97,044
Mobile office	<u>11,764</u>	<u>11,764</u>
Total property and equipment	774,514	772,902
Less accumulated depreciation and amortization	<u>(372,457)</u>	<u>(291,390)</u>
Total property and equipment, net	<u>\$ 402,057</u>	<u>\$ 481,512</u>

Patents - Legal fees incurred in obtaining patents and franchises in the United States of America and other countries are capitalized. Costs to develop the technology are recognized as research and development and expensed when incurred. The patents are being amortized, once issued, on a straight-line basis over a 17-year life.

At June 30, 2010 and 2009, the Company had capitalized patents subject to amortization of \$69,553 and \$75,201, net of \$26,474 and \$20,825 in accumulated amortization, respectively.

All patent costs were assessed for impairment and no impairments were recorded during the years ended June 30, 2010 and 2009. Amortization expense was \$5,649 for the years ended June 30, 2010 and 2009. Amortization expense is expected to be \$5,649 per year for the next five years.

Alternate Solar Energy Systems - The Company's principal product is its Alternative Solar Energy System ("System"). Each individual system is designed to generate 250,000,000 British Thermal Units ("BTU's") per year. The principal component of the system is the solar lenses in the collection platform. The solar lenses are purchased from a third party. The System also includes towers and pipelines, which are constructed by the Company.

Capitalized Costs - Similar to a multi-unit condominium project with both unit-specific and common area costs, the Company capitalizes all costs associated with constructing the System. Costs are allocated equally to each unit (based on their common size) and will be recognized as cost of sales at the same rate revenue is recognized, as discussed below. Capitalized System costs at June 30, 2010 include labor costs and materials for the Systems being built through June 30, 2010 and materials that will be used to produce additional Systems that will be sold in the future.

Customer Deposits and Revenue Recognition - The terms of sale of a System provides for an initial cash deposit of \$9,000 at the date the agreement is signed and thirty annual payments of \$700 (with no stated interest), totaling \$21,000, commencing five years following the installation date. As of June 30, 2010, the Company had entered into contracts and received deposits to build, install and maintain approximately 270 Systems. No revenue has been recognized.

Under the terms of sale, the Company warrants that the Systems will remain in good operating condition for a thirty-five year period commencing on the installation date and that it will be responsible for all material, equipment and labor costs incurred to complete such maintenance and repair work. In addition, the Company warrants a production rate of 95% of the target production rate of 250,000,000 BTU's per year for the first five years. If the energy produced during the first five years is less than five times the warranted production rate, the purchaser may elect to terminate the agreement and will have no further obligation other than to return the System to the Company. The initial cash deposit will not be returned.

The deposits received have been recorded as customer deposits and included as current liabilities in the financial statements since the Company has not verified the energy output and has not yet delivered electricity from the Systems to a third party as of June 30, 2010. Therefore, for all of these agreements, the customers may request a return of their deposits since the Company has not verified output of the energy. Revenue will be recognized when all of the following four criteria are met: (1) persuasive evidence of an arrangement exists, (2) the fee is fixed or determinable, (3) collection is reasonably assured, and (4) delivery has occurred or services have been rendered. The Company will begin to recognize revenue once the Systems energy output has been verified (saleable energy is produced) and once it is able to estimate its costs associated with the warranty.

Stock-Based Compensation - Stock-based compensation cost is measured at the grant date based on the fair value of the award granted and recognized as expense over the requisite service period in which the award is expected to vest. The fair value of stock options was determined at the grant dates using the Black-Scholes option-pricing model. The Company uses historical data to estimate the expected volatility and expected life. The estimation of stock awards that will ultimately vest requires judgment, and to the extent actual results differ from estimates,

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such amounts will be recorded as an adjustment in the period estimates are revised. The Company considers many factors when estimating expected forfeitures, including types of awards, employee class and historical experience. Actual results may differ substantially from these estimates (see Note 4).

Advertising Costs - Advertising costs are expensed when incurred. Advertising expense was \$33,156 and \$12,884 for the years ended June 30, 2010 and 2009, respectively.

Research and Development - Research and development has been the principal function of the Company. Research and development costs are expensed as incurred. Expenses in the accompanying financial statements include certain costs which are directly associated with the Company's research and development of the Solar Power Plant technology, Steam Turbine technology, Automated Fingerprint Identification Machine technology, Digital Wave Modulation Technology and other various projects. These costs, which consist primarily of monies paid for consulting expenses, materials and supplies and compensation costs amounted to \$493,550 and \$704,889 for the fiscal years ended June 30, 2010 and 2009, respectively.

Income Taxes - The Company recognizes the amount of income taxes payable or refundable for the current year and recognizes deferred tax assets and liabilities for operating loss carryforwards and for the future tax consequences attributable to differences between the financial statement amounts of certain assets and liabilities and their respective tax basis. Deferred tax assets and deferred liabilities are measured using enacted tax rates expected to apply to taxable income in the years those temporary differences are expected to be recovered or settled. Deferred tax assets are reduced by a valuation allowance to the extent that uncertainty exists as to whether the deferred tax assets will ultimately be realized.

Recent Accounting Pronouncements - In June 2009, the FASB issued guidance under SFAS No. 166, "Accounting for Transfers of Financial Assets - an amendment of FASB Statement No. 140" ("SFAS 166"), which was subsequently codified into ASC Topic 860. SFAS 166 amends SFAS 140 by including: the elimination of the qualifying special-purpose entity (QSPE) concept; a new participating interest definition that must be met for transfers of portions of financial assets to be eligible for sale accounting; clarifications and changes to the derecognition criteria for a transfer to be accounted for as a sale; and a change to the amount of recognized gain or loss on a transfer of financial assets accounted for as a sale when beneficial interests are received by the transferor. Additionally, the standard requires extensive new disclosures regarding an entity's involvement in a transfer of financial assets. Finally, existing QSPEs (prior to the effective date of SFAS 166) must be evaluated for consolidation by reporting entities in accordance with the applicable consolidation guidance upon the elimination of this concept. This guidance is effective for the Company beginning on July 1, 2010. The Company does not expect the adoption of this guidance to have material impact on its financial statements.

In June 2009, the FASB issued guidance under SFAS No. 167, "Amendments to FASB Interpretation No. 46(R)", which was subsequently codified into ASC Topic 810. Among other items, this guidance responds to concerns about the application of certain key provisions of FIN 46(R), including those regarding the transparency of the involvement with variable interest entities. This guidance is effective for the Company beginning on July 1, 2010. The Company does not expect the adoption of this guidance to have material impact on its financial statements.

In October, 2009, the FASB issued ASC Update 2009-13, "Multiple-Deliverable Revenue Arrangements" ("ASC Update 2009-13"). This guidance provides amendments to the criteria in Subtopic 605-24 for separating consideration in multiple-deliverable revenue arrangements. It establishes a hierarchy of selling prices to determine the selling price of each specific deliverable which includes vendor-specific objective evidence (if available), third-party evidence (if vendor-specific evidence is not available) or estimated selling price if neither of the first two are available. The guidance also eliminates the residual method for allocating revenue between the elements of an arrangement and requires that arrangement consideration be allocated at the inception of the arrangement. Finally, the guidance expands the disclosure requirements regarding a vendor's multiple-deliverable revenue arrangements. ASC Update 2009-13 should be applied on a prospective basis for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010. The Company does not expect the adoption of this guidance to have material impact on its financial statements.

In October, 2009, the FASB issued ASC Update 2009-14, "Certain Revenue Arrangements That Include Software Elements" ("ASC Update 2009-14"). This guidance amends existing guidance to exclude tangible products that include software and non-software components that function together to deliver the product's essential functionality. ASC Update 2009-14 shall be applied on a prospective basis for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010. The Company does not expect the adoption of this guidance to have material impact on its financial statements.

The Company has reviewed all other recently issued, but not yet adopted, accounting standards in order to determine their effects, if any, on its results of operation, financial position or cash flows. Based on that review, the Company believes that none of these pronouncements will have a significant effect on its financial statements.

NOTE 2 - BASIC AND DILUTED NET LOSS PER COMMON SHARE

Basic earnings per share is computed by dividing the net income or loss applicable to common shares by the weighted average number of common shares outstanding. Diluted earnings per share is computed by dividing the net income or loss by the sum of the weighted average number of common shares plus the weighted average common stock equivalents which would arise from the exercise of outstanding stock options, issuance of stock held in trust and conversion of Series B Preferred Shares into options to purchase shares of common stock, using the treasury stock method and the average market price per share during the period.

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As a result of incurring a net loss for the years ended June 30, 2010 and 2009, no outstanding common stock equivalents are included in the calculation of diluted earnings per share because such effect would be anti-dilutive. The Company had outstanding stock options and warrants to purchase a total of 94,900,000 and 95,900,000 shares of common stock at June 30, 2010 and 2009, respectively, which are not included in the basic earnings per share calculation. The Company had 3,538,118 and 4,344,818 shares of common stock held in trust at June 30, 2010 and 2009, respectively, which are not included in the basic earnings per share calculation. The Company had 300,000 Series B Preferred Shares that are convertible into options to purchase 600,000 shares of common stock at June 30, 2010 and 2009, which are not included in the basic earnings per share calculation.

NOTE 3 – RELATED PARTY TRANSACTIONS

During 2003, the Company commenced leasing office and research and development space on a month-to-month basis from the Company's president and a third party. The lease is an operating lease and rent expense is \$6,000 per month payable to the president and \$6,200 per month payable to the third party. The amount payable to the president for rent at June 30, 2010 and 2009 was \$73,500 and \$65,000, respectively, and is included in related party payables.

The Company received cash advances of \$498,082 and \$557,101 from its president during the years ended June 30, 2010 and 2009. The advances are non-interest bearing, payable upon demand and included in related party payables. During the year ended June 30, 2010, the Company settled \$400,000 of the cash advances by issuing 1,000,000 shares of common stock to the president upon the exercise of warrants; and paid \$104,432 of the cash advances. During the year ended June 30, 2009, the Company settled \$630,000 of the cash advances by issuing 1,575,000 shares of common stock to the president upon the exercise of warrants; paid \$173,744; and settled \$86,977 of the cash advances through the transfer of in-process patent rights at cost. As of June 30, 2010 and 2009, the balance was \$434,032, and \$440,382, respectively.

The Company has received deposits from officers of \$81,000 for alternate solar energy systems, which are included in customer deposits at June 30, 2010 and 2009.

The Company's president and two of his sons, who are also officers of the Company, control approximately 86% of the voting rights of the Company. As a result, these three individuals control the Company's business operations and policies and all matters requiring stockholder approval, including the election of directors and approval of significant corporate transactions.

NOTE 4 – STOCK BASED COMPENSATION

Options and Warrants - The Company's board of directors authorized the Company to enter into an agreement dated May 14, 2004 and amended October 13, 2004, with the Company's president, in which the Company acquired patents, patents pending, designs and contracts related to certain technology developed by the president from the president. The direct costs of developing and obtaining the acquired patents, patents pending, designs and contracts were paid and capitalized by the Company. No additional value has been assigned to these patents as a result of them being acquired from the president.

As consideration, the Company authorized and issued warrants to purchase 100,000,000 shares of common stock to the president and agreed to pay the president royalties in the future equal to 10% of future sales proceeds from the technology. The warrants, which were considered stock-based compensation for services to be rendered, had no intrinsic value on the grant date. The fair value of the warrants was \$37,136,781, calculated on the grant date using the Black-Scholes model. The following assumptions were used for this grant: Average risk-free interest rate of 4.79%; expected lives of 10 years; expected dividend yield of zero percent; and expected volatility of 138.76%. On July 1, 2006, the Company began recognizing stock-based compensation expense over the graded exercisability period of the options using the straight-line basis over the requisite service period for each separately exercisability portion of the award as if the award was, in-substance, multiple awards.

The agreement contains an anti-dilution clause that gives the president the right to purchase the same number of shares of common stock, given reclassification, reorganization or change by a stockholder, as were purchasable prior to any such changes, at a total price equal to that payable upon the exercise of the options. Appropriate adjustments shall be made to the exercise price so the aggregate purchase price of the shares will remain the same.

The warrants have an exercise price of \$0.40 per share and are all exercisable as of June 30, 2010.

During the year ended June 30, 2009, the president exercised 1,575,000 of the warrants in exchange for satisfaction of related party payable of \$630,000.

During the year ended June 30, 2010, the president exercised 1,000,000 of the warrants in exchange for satisfaction of a related party payable of \$400,000.

In August 2000, the Company issued options to purchase 1,000,000 shares of restricted common stock over a ten year period at \$3.00 per share as part of employment agreements. These options vest 100,000 shares per year over a ten year period and expire ten years from the date of issuance.

In August 2000, the Company issued options to purchase 600,000 shares of restricted common stock over a ten year period at \$3.00 per share as part of employment agreements. These options vested on August 24, 2000 and expire ten years from the date of issuance.

The following table summarizes the stock option and warrant activity as of and for the years ended June 30, 2010 and 2009:

	Options and Warrants	Wtd. Avg. Exercise Prices	Wtd. Avg. Remaining Life in Years	Aggregate Intrinsic Value
Outstanding at June 30, 2008	97,475,000	\$ 0.44	27.2	\$ 33,277,500
Exercised	<u>(1,575,000)</u>	0.40		-
Outstanding at June 30, 2009	95,900,000	0.44	26.1	17,917,000
Exercised	<u>(1,000,000)</u>	0.40		-
Outstanding at June 30, 2010	<u>94,900,000</u>	\$ 0.44	24.1	\$ -
Exercisable at June 30, 2010	<u>94,900,000</u>	\$ 0.44	24.1	\$ -

The following table summarizes information about the stock options and warrants as of June 30, 2010:

Range of Exercise Prices	Options and Warrants Outstanding and Exercisable			
	Shares	Wtd. Avg. Remaining Contractual Life (years)	Wtd. Avg. Exercise Price	Aggregate Intrinsic Value
\$ 3.00	1,600,000	0.15	\$ 3.00	\$ -
\$ 0.40	<u>93,300,000</u>	24.52	0.40	-
	<u>94,900,000</u>	24.11	\$ 0.44	<u>\$ -</u>

The following table summarizes the activity of non-vested options and warrants for the years ended June 30, 2010 and 2009:

	Options and Warrants	Wtd. Avg. Grant Date Fair Value
Non-vested at June 30, 2008	75,200,000	\$ 0.37
Vested during the year ended June 30, 2009	<u>(10,100,000)</u>	0.39
Non-vested at June 30, 2009	65,100,000	0.37
Vested during the year ended June 30, 2010	<u>(65,100,000)</u>	0.37
Non-vested at June 30, 2010	<u>-</u>	\$ -

The total fair values of options and warrants vested during the years ended June 30, 2010 and 2009 was \$24,269,000 and \$3,919,000, respectively.

Restricted Stock - During the year ended June 30, 2010, the Company granted 300,000 shares of restricted stock to employees, which vested immediately. The grant date fair value of the restricted stock awards, which totaled \$105,000, was based on the effective date of the restricted stock awards using the \$0.35 closing market price of the Company's common stock on the grant date, with the compensation expense being recognized immediately. During the year ended June 30, 2010, employees purchased 429,131 shares of restricted stock at a 25% discount from the price of the stock on the date of the sale. The Company recorded the value of the 25% discount of \$29,333 as stock-based compensation.

During the year ended June 30, 2009, the Company granted 505,000 shares of restricted stock to employees, which vested immediately. The grant date fair value of the restricted stock awards, which totaled \$126,250, was based on the effective date of the restricted stock awards using the \$0.25 closing market price of the Company's common stock on the grant date, with the compensation expense being recognized immediately.

For the years ended June 30, 2010 and 2009, total stock-based compensation expense recognized was \$2,307,923 and \$4,841,689, respectively. Stock-based compensation for the year ended June 30, 2010 includes the issuance of 300,000 shares of restricted common stock valued at \$105,000 and the value of the 25% discount of \$29,333. Stock-based compensation for the year ended June 30, 2009 includes the issuance of 505,000 shares of restricted common stock valued at \$126,250. As of June 30, 2010, there was no unrecognized compensation cost related to non-vested stock-based compensation awards granted.

Reduction in related party payables received from the exercise of stock options and warrants during the years ended June 30, 2010 and 2009 was \$400,000 and \$630,000, respectively. No tax benefit was realized from the exercise of these options and warrants due to the Company's current loss position.

NOTE 5 – NOTES PAYABLE

Notes payable consist of the following:

	June 30, 2010	June 30, 2009
Note payable to a financing company; 7% per annum; secured by land; due in annual installments of \$10,000; maturing on August 1, 2016; collateralized by a deed of trust covering the underlying real property	\$ 51,366	\$ 57,387
Note payable to a financing company; 7% per annum; secured by land; due in annual installments of \$9,397; maturing on July 15, 2016; collateralized by a deed of trust covering the underlying real property	45,181	51,168
Note payable to a company; 4.65% per annum; due in monthly installments of \$4,000; maturing in May 2010	18,168	40,670
	<u>114,715</u>	<u>149,225</u>
Less current portion	(30,881)	(52,543)
Long-term debt	<u>\$ 83,834</u>	<u>\$ 96,682</u>

The scheduled maturities of the notes payable are as follows:

2011	\$ 30,881
2012	13,604
2013	14,555
2014	15,575
2015	16,665
Thereafter	23,435
	<u>\$ 114,715</u>

NOTE 6 – PREFERRED STOCK

Series A Preferred Stock – The Series A Preferred Stock has equal dividend rights to the common shares, is not convertible into common shares, has no cumulative dividend requirements and has liquidation preferences equivalent to the common shares. 3,400,000 of the Series A Preferred Stock are entitled to the voting rights of ten common shares, and 1,000,000 of the Series A Preferred Stock are entitled to the voting rights of 100 common shares. At June 30, 2010 and 2009, there were 4,400,000 Series A Preferred Stock issued and outstanding.

Series B Preferred Stock – The Series B Preferred Stock has equal dividend rights to the common shares, has no cumulative dividend requirements, has liquidation preferences equivalent to the common shares and each preferred share is entitled to the voting rights of ten common shares. Each share is convertible into options to purchase two shares of common stock at \$3.00 per share, exercisable immediately

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and the options expire ten years from the date the preferred stock is exchanged. At June 30, 2010 and 2009, there were 900,000, series B Preferred shares issued and outstanding.

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NOTE 7 – COMMON STOCK

Common Stock Held in Escrow - The Company has shares of common stock held in escrow accounts. Proceeds from the sale of stock from these escrow accounts are placed in separate escrow accounts to be used at the Company's and the trustee's discretion. During the year ended June 30, 2010, 806,700 shares were sold for proceeds of \$300,230 at prices ranging from \$0.22 to \$0.62 per share. During the year ended June 30, 2009, 1,245,000 shares were sold for proceeds of \$432,502 at prices ranging from \$0.16 to \$0.67 per share. The proceeds were used to pay professional fees, rent, operating expenses and accrued liabilities. At June 30, 2010 and 2009, there was a balance of 3,538,118 and 4,344,818 shares, respectively, in the escrow accounts. These shares are not accounted for as issued or outstanding common shares.

During the year ended June 30, 2010, the Company also issued 429,131 shares of restricted common stock to employees in exchange for \$88,000 in cash at an average price of \$0.21 per share.

Common Stock Issued for Services – During the year ended June 30, 2009, the Company issued 50,000 shares of common stock valued at \$29,500 or \$0.59 per share in exchange for services performed.

Retirement of Common Stock – The Company retired 20,400 shares of common stock during the year ended June 30, 2009.

NOTE 8 – CUSTOMER DEPOSITS

During the years ended June 30, 2010 and 2009, the Company received customer deposits totaling \$621,000 and \$954,000, respectively, and refunded deposits totaling \$18,000 and \$0, respectively, relating to contract agreements to build, install and maintain alternate solar energy systems.

The total amount of customer deposits at June 30, 2010 and 2009 was \$2,360,250 and \$1,757,250, respectively. The agreements provide that the Company will deliver, install and startup the alternate solar energy systems prior to June 30, 2010. The Company has and continues to work toward delivering, installing and starting up the alternate solar energy systems, but the energy output has not been verified. Therefore, for all of these agreements, the customers may request a return of their deposits since the Company has not verified output of the energy.

NOTE 9 – INCOME TAXES

Because of its net losses, the Company did not have a current or deferred provision for income taxes for the years ended June 30, 2010 and 2009. Significant components of the Company's net deferred income tax assets using a combined federal and state tax rate of 37.3% as of June 30, 2010 and 2009 are as follows.

	<u>June 30, 2010</u>	<u>June 30, 2009</u>
Net operating loss carryforwards	\$ 4,567,526	\$ 4,116,481
Accrued wages	94,439	47,332
Depreciation and amortization	<u>(25,338)</u>	<u>(21,990)</u>
Total gross deferred income tax asset	4,636,627	4,141,823
Less valuation allowance	<u>(4,636,627)</u>	<u>(4,141,823)</u>
Net deferred income taxes	<u>\$ -</u>	<u>\$ -</u>

The net change in the valuation allowance for the years ended June 30, 2010 and 2009 was an increase of \$494,804 and \$714,000, respectively.

Accounting guidance requires that a valuation allowance be provided if it is more likely than not that some portion or all of a deferred tax asset will not be realized. Because the Company has a history of operating losses, the Company's ability to realize the benefit of its deferred tax asset will depend on the generation of future taxable income. The Company has recorded a full valuation allowance as of June 30, 2010 and 2009.

At June 30, 2010, the Company had total tax net operating loss carryforwards of \$12,245,379 that will expire in the years 2012 through 2030.

The following is a reconciliation of the income tax benefit from the loss before extraordinary gain computed at the federal statutory tax rate with the provision for income taxes for the years ended June 30, 2010 and 2009:

	<u>June 30, 2010</u>	<u>June 30, 2009</u>
US Federal income tax benefit at statutory rate of 34%	\$ (1,198,425)	\$ (2,256,695)
Nondeductible expenses	819,939	1,761,265
State income tax benefit, net of federal expense	(116,318)	(219,032)
Change in valuation allowance	494,804	714,462
Total income tax provision	<u>\$ -</u>	<u>\$ -</u>

The Company has analyzed filing positions in all of the federal and state jurisdictions where it is required to file income tax returns. The Company believes that its income tax filing positions and deductions will be sustained on audit and does not anticipate any material adjustments. Therefore, no reserves for uncertain income tax positions have been recorded. The Company is subject to audit by the IRS and various states for the prior 3 years.

The Company's policy for recording interest and penalties associated with taxes is to recognize it as a component of income tax expense. The Company recorded no interest and penalties for the years ended June 30, 2010 and 2009.

NOTE 10 – COMMITMENTS AND CONTINGENCIES

Sales Commitments - During December 2005, the Company entered into a purchase and installation contract with Solar Renewable Energy-1, LLC for a solar thermal power plant. The contract is contingent on several factors and provides for certain progress payments to the Company. As of June 30, 2010, the Company has not provided any services or equipment required under this agreement and has recognized no revenues.

The Company's board of directors authorized the Company to enter into an agreement dated May 14, 2004 and amended October 13, 2004, with the Company's president, in which the Company acquired patents, patents pending, designs and contracts related to certain technology developed by the president from the president. As consideration, the Company authorized and issued warrants to purchase 100,000,000 shares of common stock to the president and agreed to pay the president royalties in the future equal to 10% of future sales proceeds from the technology.

The Company's president has entered into several solar lease bonus fee contracts with many of the customers who made deposits on the alternate solar energy system discussed in Note 8. As additional consideration for making the deposit and making the solar alternate energy system available to the Company as a reference for marketing and sales purposes to show and demonstrate, the Company's president has agreed to pay many of the customers a referral fee of .009%, for each System purchased, on the first one billion dollars of total gross sales revenue received by the Company for the sale of power generation equipment.

Legal - During the years ended June 30, 2010 and 2009, the Company was involved in various lawsuits to protect its patents. One counterclaim was filed by a defendant against the Company in June 2008, requesting an award for attorney fees and court costs, which could have exceeded \$1,000,000. The Company filed a motion to dismiss in August 2008. The Court issued a Memorandum Decision and Order denying the defendant's motion for summary judgment and denying the motion for an award of attorney fees. The Court made a limited award of \$45,000 for reasonable attorney fees incurred by the defendant, which was paid by the Company in April 2009.

Employment Agreement - The Company has entered into an agreement with its president and CEO for a period of ten years starting in July 2000. Per the agreement, the president is to be paid \$100,000 per annum and shall increase each calendar year by the percentage increase in the Consumer Price Index. The president may terminate the agreement, but must give the Company six months advance notice. The Company can not voluntarily terminate its president's employment for any reason. No additional payments are outlined in the agreement for a change in control. The president agreed to waive his salary from July 2000 to June 30, 2006. The Company issued 1,000,000 Series A Preferred Stock, entitled to the voting rights of 100 common shares, valued at \$122,478, to its president in lieu of cash compensation for services rendered during fiscal year 2008. The Company accrued \$125,000 for services rendered by its president during both fiscal year 2010 and 2009, which are included accrued liabilities at June 30, 2010 and 2009. No new employment agreement has yet been entered into between the Company and its president.

NOTE 11 – LEASE OBLIGATIONS

In October 2006, the Company entered into a lease agreement for research and development space. The term of this lease is from November 1, 2006 to November 1, 2016. The following summarizes future minimum lease payments under this lease at June 30, 2010:

2011	\$	7,500
2012		7,500
2013		7,500
2014		7,500
2015		7,500
Thereafter		10,000
	\$	<u>47,500</u>

Total rent expense for this lease and the leases described in Note 3 for the years ended June 30, 2010 and 2009 was \$170,057 and \$169,870, respectively.

NOTE 12 – SUBSEQUENT EVENTS

The Company entered into an agreement for engineering and consulting services in July 2010. As part of the agreement, the Company agreed to transfer in retainer 1,500,000 shares of the Company's restricted stock to engineering consulting firm as a retainer. The engineering consulting firm will be entitled to have shares of the restricted stock sold as reasonably needed to generate funds to pay for engineering and consulting costs incurred by the engineering and consulting firm for the Company. The restricted shares transferred will be classified as shares held in escrow.

The Company has received \$166,577 in cash advances from its president subsequent to June 30, 2010, thereby increasing related party payables.

I, Neldon Johnson, President and Chief Executive Officer, certify that:

1. I have reviewed this report on Form 10-K of International Automated Systems, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: October 13, 2010

/s/ Neldon Johnson

Neldon Johnson
President, Chief Executive Officer

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of International Automated Systems, Inc. (the "Company") on Form 10-K for the period ending June 30, 2010 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Neldon Johnson, President and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

(1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

/s/ Neldon Johnson
Neldon Johnson
President, Chief Executive Officer
October 13, 2010

I, LaGrand Johnson, Chief Financial Officer, certify that:

1. I have reviewed this report on Form 10-K of International Automated Systems, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-14 and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation, and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: October 13, 2010

/s/ LaGrand Johnson

LaGrand Johnson

Chief Financial Officer

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of International Automated Systems, Inc. (the "Company") on Form 10-K for the period ending June 30, 2010 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, LaGrand Johnson, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

(1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

/s/ LaGrand Johnson
LaGrand Johnson
Chief Financial Officer
October 13, 2010

RaPower3

Technology

Opportunity

Events &

803

EXPIRE
BISMILLAH

General Q's

Purchasing Q's

Tax Q's

Technology Q's

Contract Q's

Sponsoring Q's

Rental Q's

Miscellaneous Q's

FAQ Tax Questions

1. What is the Solar Investment Tax Credit?

The solar Investment Tax Credit (ITC) is one of the most important federal policy mechanisms to support the deployment of solar energy in the United States. SEIA successfully advocated for a multi-year extension of the credit in 2015, which provides business certainty to project developers and investors. The ITC continues to drive growth in the industry and job creation across the country. (Source: seia.org)

Quick Facts about the ITC

- The ITC is a 30% tax credit for solar systems on residential (under Section 25D) and commercial (under Section 48) properties.
- The residential and commercial solar ITC has helped annual solar installation grow by over 1,600% since the ITC was implemented in 2006 - a compound annual growth rate of 76%.
- The existence of the ITC through 2021 provides market certainty for companies to develop long-term investments that drive competition and technological innovation, which in turn, lowers costs for consumers.

2. How does the Solar Investment Tax Credit work?

A tax credit is a dollar-for-dollar reduction in the income taxes that a person or company claiming the credit would otherwise pay the federal government. The ITC is based on the amount of investment in solar property. Both the residential and commercial ITC are equal to 30 percent of the basis that is invested in eligible property which have commenced construction through 2019. (Source: seia.org)

3. How long will the solar tax credits last?

After 2019 the ITC then steps down to 26 percent in 2020 and 22 percent in 2021. After 2023, the residential credit will drop to zero while the commercial and utility credit will drop to a permanent 10 percent. Commercial and utility projects which have commenced construction before December 31, 2021 may still qualify for the 30, 26 or 22 percent ITC if they are placed in service before December 31, 2023. The Treasury and IRS are currently drafting guidance which will inform solar developers of which percentage of ITC they will qualify for depending on when they started their project. (Source seia.org) Click [HERE](#) for the current tax credit schedule.

4. What is the purpose of solar tax benefits such as the Investment Tax Credits (ITC) and depreciation?

From President Obama's 2011 State of the Union Address:

Two years ago I said that we needed to reach a level of research and development we haven't seen since the space race and in a few weeks I will be sending a budget to congress that helps us meet that goal. Especially clean energy technology. Already we're seeing the promise of renewable energy. We need to get behind this innovation. To help pay for it, I'm asking congress to eliminate the billions in taxpayers dollars we currently give to oil companies. And instead of subsidizing yesterday's energy, let's invest in tomorrow's energy. --Pres. Obama

5. Do I get a Prosepectus or K-1 with my Solar Thermal Lens purchase?

No. This is not an investment. It is simply a purchase of Solar Thermal Lenses. Therefore, there is no K-1 form, prospectus or securities issue.

6. What are the tax forms used for the solar energy tax credits?

You can access the solar energy tax forms 3468 and 3800 by going to irs.gov. In the upper right-hand corner there is a search engine; just put in the form number. The allowable 30% tax credit goes on line 12b, which states: Basis of property using solar illumination or solar energy placed in service during the tax year that was acquired after December 31, 2005, and the basis attributable to construction, reconstruction, or erection by the taxpayer after December 31, 2005 (see instructions). After the forms are filled out correctly, then the tax credit amount goes on the 2nd page of your 1040 form in the box provided for form 3800.

To qualify as energy property, property must be equipment that uses solar energy to:

- Generate electricity,
- Heat or cool (or provide hot water for use in) a structure, or
- Provide solar process heat (but not to heat a swimming pool).

2016 Tax Forms (2017 forms should be available on February 1st, 2018)

FORM 1040

www.irs.gov/pub/irs-pdf/f1040.pdf

www.irs.gov/pub/irs-pdf/i1040a.pdf

FORM 1040SC

www.irs.gov/pub/irs-pdf/f1040sc.pdf

www.irs.gov/instructions/i1040sc/index.html

FORM 3468
www.irs.gov/pub/irs-pdf/f3800.pdf
www.irs.gov/pub/irs-pdf/i3800.pdf

FORM 3468

www.irs.gov/pub/irs-pdf/f3468.pdf
www.irs.gov/pub/irs-pdf/i3468.pdf

7. What types of solar qualify for the solar energy tax credit?

Eligible solar energy property includes equipment that uses solar energy to generate electricity, to heat or cool a structure, or to provide solar process heat. (Source: energy.gov and dsireusa.org)

RaPower3 uses thin-film solar thermal lenses that concentrate the sun's energy onto solar receivers that generate either electricity or solar process heat that can be used for a variety of industrial, business, commercial or residential purposes.

8. What is solar process heat?

Solar process heat is any type of heat produced by a solar energy system that reduces or replaces energy coming from a hydrocarbon fuel or fossil fuel source through a commercial and/or research & development application. RaPower3 solar lenses can produce heat for a variety of purposes. They can also generate electricity for several purposes outside of power being put on the grid, although, we can also put power on the grid.

9. Will the lenses I purchased be Placed In Service?

Yes. A Placed-In-Service letter may be e-mailed to you upon request after the first of the year. We suggest you make a copy of the letter and give it to your CPA so it's on file for his/her records.

10. What are the carry forward rules for solar tax credits?

Taxpayers may carry forward their tax credits 20 years or back one year – (Always check with your qualified tax preparer on carry forward rules for your situation.)

11. How do I find out how tax benefits may apply to my Solar Thermal Lens purchases?

You can read the following Tax Attorney Letters:



Tax Opinion (Anderson)



Tax Opinion (Haws)



Tax Letter (K&M)

12. Where else can look for more information on solar tax credits?

- [Tax Credits \(U.S. Department of Energy\)](#)
- [Tax Credit Program Overview \(DSIRE\)](#)
- [Solar Tax Credit Fact Sheet \(SEIA\)](#)
- [The Solar Story \(GoldmanSacs\)](#)
- [Renewables Boom Thanks to Tax Credits \(ScientificAmerican\)](#)

13. Do I need to use a CPA?

RaPower3 does not provide tax advice. You should always consult a qualified tax advisor with questions regarding taxes and tax benefits.

14. I heard RaPower3 could have a problem with the IRS and Department of Justice (DOJ). Is this true?

In the past, the IRS and the DOJ has expressed concern regarding the veracity of RaPower3 technology and the strength of the company's research and development. RaPower3's technology marks a sharp departure from old traditional energy technologies, so the resulting confusion is not surprising. RaPower3 and their attorneys have been working closely with these departments to educate them on the company's technology and to clear up any outstanding concern. All issues are nearing a positive conclusion and will be fully resolved soon.

This has not had any impact on RaPower3's ability to conduct business or sell Solar Thermal Lenses and the company continues to rapidly move forward on the first phase of its [Concentrated Solar Power \(CSP\) Project in Delta, Utah](#).

- You may read the company's original official response [HERE](#).

Sym	Price	Net Chg	% Chg
IAUS	\$0.15	0.00	▲ -0.07%

Published from TC2000

22	13	08	16
Days	Hours	Mins	Secs

Have a Rep Contact Me

Name *

Email *

Subject

Message

Send

To Buy Solar Lenses for 2018


This is the 2018 Quarterly Tax Deadline for the first quarter. Buy Solar Lenses in lieu of paying quarterly taxes. For example, buying \$6,000 worth of solar lenses could replace a \$10,000 tax obligation

Sample Contracts:

- Click [HERE](#) to view sample **Equipment Purchase Agreement**.
- Click [HERE](#) to view sample **Operations & Maintenance Agreement**.
- Click [HERE](#) to view sample **Compensation Contract**.

Technology Documents:

-  Tech White Papers
-  Technology Timeline
-  RaPower3 History

 Tax Opinion (Haws)

Tax Documents:

-  Placed In Service Letter
-  Tax Letter (K&M)
-  Tax Opinion (Anderson)

 [Business Entity Details](#)

Business Documents:

-  Installation Permit
-  Manufacturing Permit
-  Business License Approval

Technology:
[Technology Overview](#)
[Technology Videos](#)
[Disruptive Solutions](#)
[The Basics](#)
[Patents](#)

Opportunity:
[Opportunity Overview](#)
[Your Revenue](#)
[Calculate Lenses](#)
[Buy Lenses and Join](#)

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PR Contact:
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matt@rapower3.com
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Business Contact:
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greg@rapower3.com
 801-699-2284

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Disclaimer: RaPower3 is a seller of energy systems and does not give tax advice nor does Greg Shepard or Matt Shepard. They are not CPAs or qualified tax preparers. Website references toward tax incentives are provided in general terms only; it is the sole responsibility of purchasers of RaPower3 equipment to verify all tax benefits through a competent tax preparer.

Confirmation of Electrical Power Production

Using Johnson Fresnel Lens in the Field Coupled to a Sterling Engine

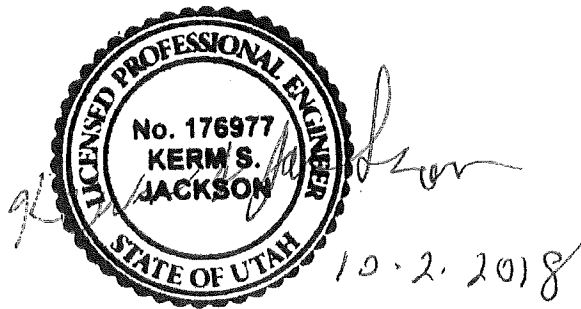
By

Johnny Kraczek

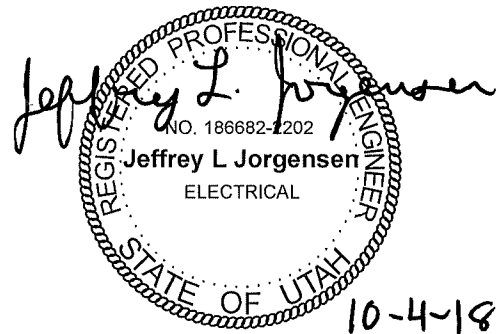
Kerm Jackson

Jeff Jorgenson

Paul Freeman



Kerm Jackson PE



Jeff Jorgensen PE

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Background

The quest to replace perishable fossil fuels with renewable energy sources has long been understood as critically important for the short and long-term survival of human family. Work in this area has been undertaken in the development of many different technologies, from hydro energy, to wind and solar.

In the solar branch of the renewable energy family, there are two sections, solar process heat systems and photovoltaic (PV). Solar process heat systems either trap sunlight directly, as in a greenhouse with a heat sink, or the systems concentrate solar energy to a higher temperature and use that heat energy to do work such as heat water for washing or cooking, or to heat water into steam to heat buildings or to drive mechanical systems. Many of these systems use other fluids beside water to extract work at lower or higher temperatures. Solar hot water heaters are some of the most common solar process heat technology machines currently in use and have a history reaching back more than half a century. Solar concentrators have also been around for a very long time. Generation of electricity from either gas turbine, steam engine, sterling engine, or photovoltaic systems have also successfully been used with solar concentrators in the solar process heat branch of the renewable energy family.

Solar concentrators creating solar process heat, typically fall in two major groups, reflectors and lenses. Reflectors typically use mirrors or reflective surfaces often set up with a parabolic curve, to focus the sunlight to a target. The target will then receive as much light as several suns shining directly on the target. In larger systems, the equivalent of a hundred suns or more can be achieved, and that heat can then be used to do some work, whether that is heating water or other fluids or ultimately producing electricity.

The second type of solar concentrator uses lenses. In the case of lenses, the light passes through the lens and is focused on a smaller area. The lens can again create many to even a hundred suns worth of solar process heat energy in one small location. This difference in temperature can then be engaged to do work.

There are a couple of types of lenses that have been successfully used for concentrating sunlight. Full convex lenses are circular and can focus all of the light passing through them to a single point. In the 1750's Joseph Priestly, a scientist, chemist, and writer, used sunlight and a moderately sized convex lens to decompose mercury oxides to isolate pure oxygen, among many other concentrated sunlight experiments. A vivid demonstration of this type of solar lens effectiveness is shown in science videos from the 1970s showing an 8" steel I beam being cut by the sunlight as it is swung through the focal point of a 4-foot diameter convex lens. It melts instantaneously as if hit with a very large cutting torch.

The problem with this type of lens is that large versions of it are very heavy and very expensive to make. A second type of convex lens, that can be built from a relatively thin sheet of glass or plastic is called a Fresnel lens. This type of lens is built by creating rings in the sheet, each ring has a slightly different pitch, again designed to focus the light to a center point.

Fresnel lenses have been successfully used in solar research projects just like full convex lenses. Up until recently, they were also expensive to make although much lighter than full convex lenses.

This current study falls under the solar process heat branch of the renewable energy family dealing specifically with Fresnel lenses. The lenses used in this study were developed and patented by Mr. Neldon Johnson, and show significant promise in reducing the cost of solar process heat by lens concentration.

Design Objectives

Convex lenses, while very effective, are not often used to capture solar process heat energy. This is due to cost and weight issues. Even Fresnel lenses can be very expensive. Mr. Johnson has succeeded in developing a Fresnel lens which is much less expensive and lighter weight. The objective of lower cost, and lower weight, means that capital investment in these heat systems is less and therefore a critical technology to consider in the development of solar process heat systems.

The design objectives for the Johnson Fresnel lens are:

Mass producible

Low cost

Breakaway in high wind to prevent tower damage

Effective in concentration of sunlight

Have adjustable focal point and pattern depending on desired target shape and temperature

Solar Process Heat

The Johnson Fresnel lens can be used to generate solar process heat and have undergone preliminary testing on the following:

Hot water

Water has been pumped through copper coil targets producing live steam.

Liquid Salt

The lenses have been used to melt salt to a molten state for use in heat storage systems.

High Temperature Oil

The lenses have been used to heat high temperature oil to 700°C. The high temperature oil can then be used to boil water in a heat exchanger.

Dilute Sulfuric Acid

The Johnson lens has been used to boil water out of dilute sulfuric acid. This system allows the storage of heat indefinitely. (When water is added to the sulfuric acid, an exothermic reaction occurs producing heat when needed. This system can be used to keep hydroponic plant systems warm during winter months with energy gathered in summer months, eliminating the need for natural gas or coal heating).

Electrical Generation

Beside the use of solar process heat for heating or cooling buildings directly, another use is the creation of electricity. There are many ways of creating electricity from solar process heat, this including:

Steam Engine

The very first public power station was the Pearl Street Station in New York City, where Thomas Edison first created electricity using a steam engine coupled with a generator and his invention, the light bulb, to light a city block of tenements. The solar process heat from the Johnson Fresnel lens can be used to drive a small steam engine and alternator as well, even on a similar size to the first stage commercial power generation, the Pearl Street Station.

Steam Turbine

Solar process heat can also be used to drive steam turbines. The steam turbine is currently the work horse in producing electricity worldwide.

Concentrated PV

While photovoltaic cells are the most common of all renewable energy electricity producers, they are relatively inefficient. In other words, the surface area required to produce a given amount of electricity is large compared to the actual sun energy delivered to the space. It takes a lot of area for a small amount of power production. They are also relatively expensive.

Concentrated PV uses lenses or reflectors to deliver more sun light to a given PV cell. If the cell has cooling, this system allows the cell to produce larger amounts of current and at the same time allows the capture of solar process heat in the coolant allowing the hybrid system to improve total energy capture significantly over PV alone. The Johnson Fresnel lens has been used to drive some preliminary concentrated PV tests with cells.

Sterling Engine

The Sterling engine is a Rankine Cycle engine that uses heat to expand a gas driving a piston, rather than an internal combustion explosion to drive the gas expansion and piston. These engines have been around for more than 100 years and have become more efficient and effective in the last 30 years. They are currently used as replacements for diesel engines in remote generation sites as they require no maintenance for 25 or more years. They are effective at simply converting solar heat directly into electricity.

This study used a Sterling Engine, built by Inifinia. The model, "Colorado", was designed to specifically work with a solar collection system called "Power Dish" a reflective lens system. In this study, Johnson's team used the Johnson Fresnel lens to concentrate the light, rather than reflective mirrors.

Study Objective

The objective of this study is to show that the Johnson Fresnel lens system can be used to generate enough process heat to generate electricity using a Sterling Engine system.

Study Set Up

The Johnson Fresnel lenses were mounted on their tower. Each lens is roughly triangularly shaped, like a pizza slice and when combined with other pieces makes a full circle.

For this test each individual piece captured about 18.5 square feet of area.

15.5 individual pieces were assembled to complete the entire circle. The combined pieces have the following coverage:

18.5	Sq. ft
15.5	Lens Units
286.75	Sq. ft
26.6	Sq. meters

The circle of lenses were mounted to the Johnson Lens Tower, which allowed the lenses to be turned to face the incoming sunlight. The “Colorado” Sterling engine was mounted to the target receiver holder and a small parabolic reflector added as a collar around the head of the sterling engine.

The “Colorado” was hooked up to its controller and the load was wired to an Onics 35 Ohm, 6 kW resistor to act as the load for the test.



Figure 1: Name Plate of Load Resistor

Study Data Acquisition

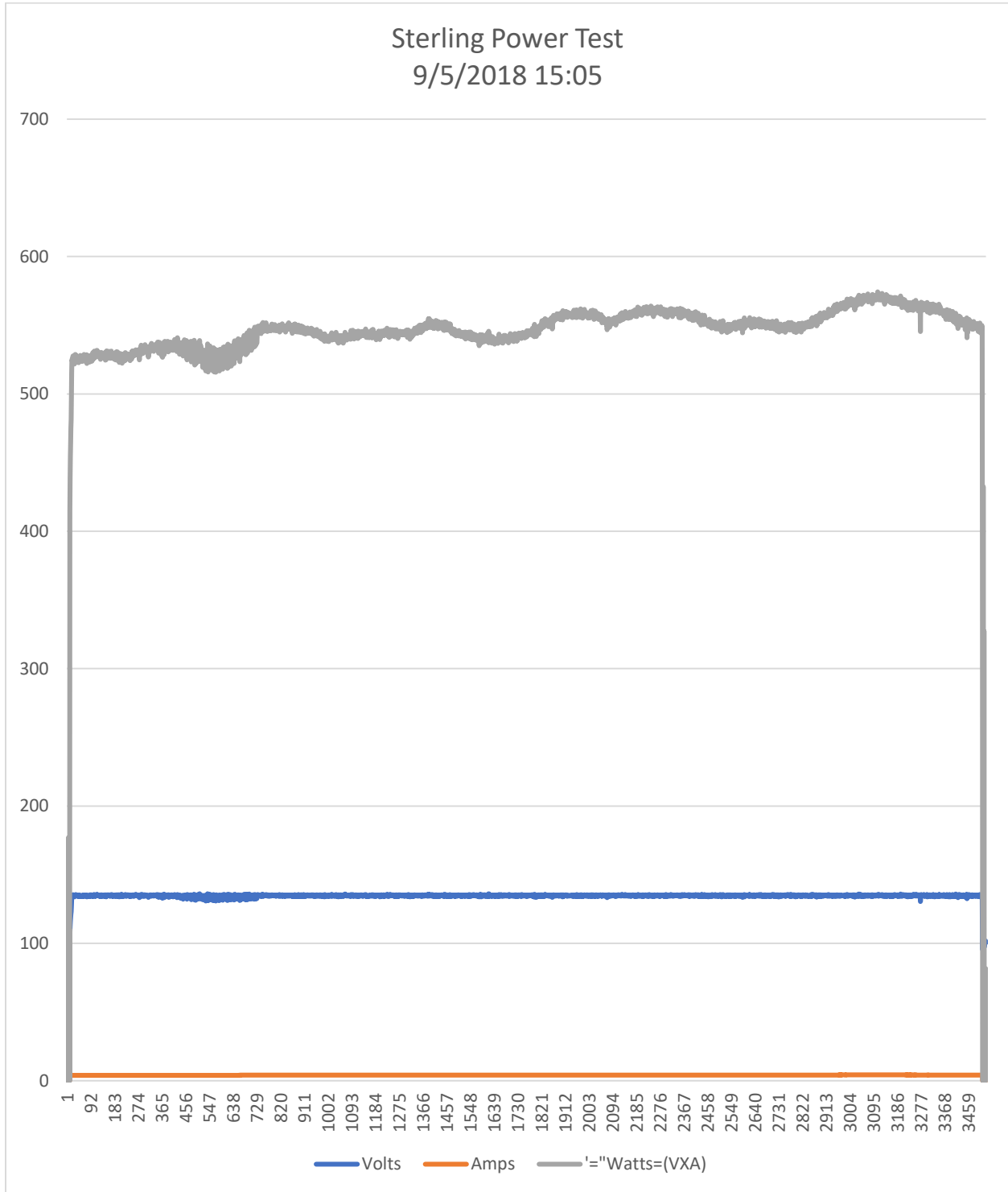
The manufacturer, Infinia, built sensors into the “Colorado” to allow the controller to monitor performance. These sensors reported to a controller and data was recorded for review. Various data points include generator volts, amps, whether the system is running and producing power, an algorithm of head temperature, and various operational data points, such as cooling pump information, etc.

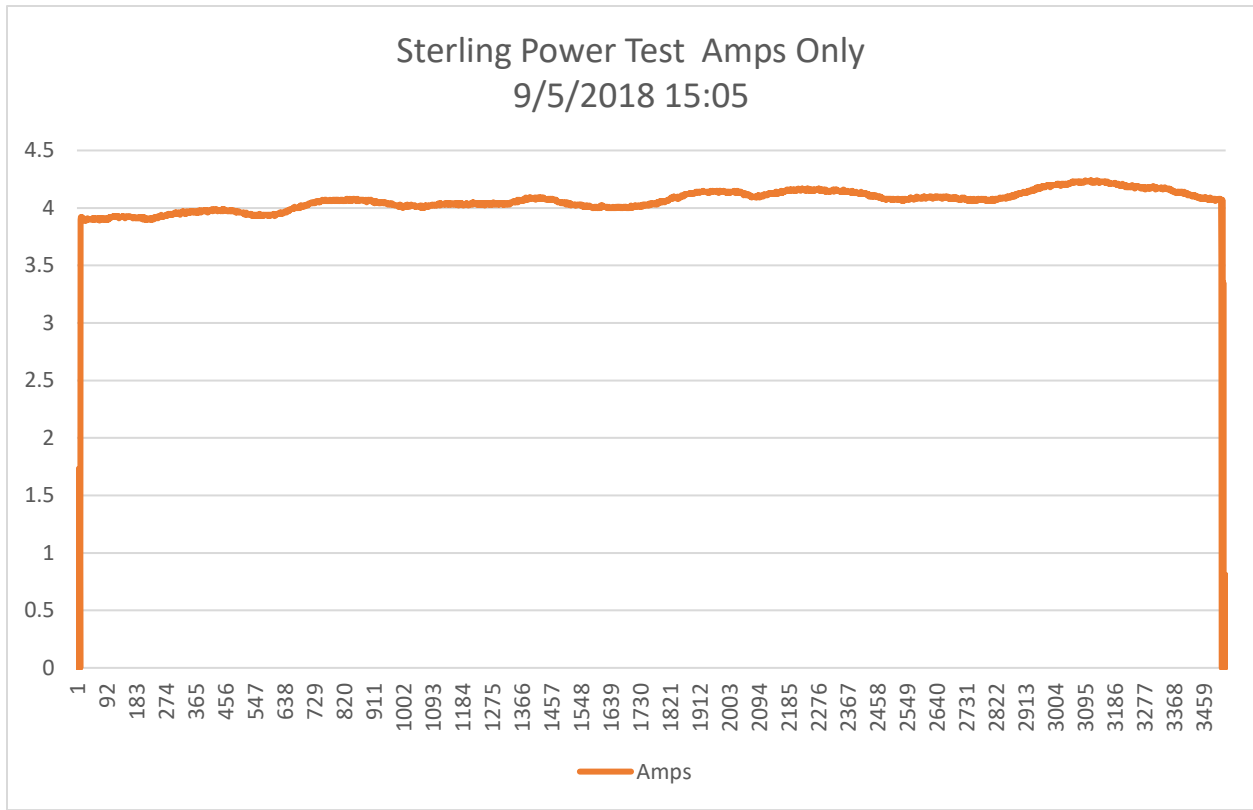
Statements from Sterling Engine Manufacturer

The Infinia assets were purchased by the company Qnergy which continues to build Sterling Engines for remote power systems. Infinia and Qnergy have been building Sterling Engine Generators for more than 30 years. Engineers familiar with the “Colorado” solar model were available for questions and informed the researchers that the volt and amp sensors were accurate to within about 2%, certainly closer than 5%. The Infinia engineers also informed this research team that the watts as reported in the data was a calculation, not from the sensors, and was based on variables and constants not sensors. They also explained that the “Colorado” can be tuned to the actual temperature conditions by adjusting the gas pressure and adjusting variables in the control system to optimize the efficiency and performance of the machine. This particular unit, used in this study, was not tuned to the available solar heat conditions and currently running in a “safe” mode. Additional tuning of the “Colorado” or using Qnergy’s new current production model, the QE 80, may allow the system to capture more of the available solar energy in ongoing development.

Data

See Appendix A for data output. The charts in this section show watts produced based on Volts * Amps.





Electrical Definitions and Background Calculations

Basic Electrical Definitions

Amps Volts and Ohms

In the early 1800's chemists and early electrical engineers began to develop definitions that are still used today to describe electrical properties and characteristics. For this study the following definitions are noted as they are used in the calculations and data:

Amps

Amps is basically the amount of current that is flowing. When thinking of electricity moving in a wire one can use the analogy of water moving in a garden hose. Amps represents the gallons per minute moving in the hose.

Volts

Volts is electron pressure. In the garden hose analogy, volts is similar to water pressure or PSI, (pounds per square inch).

*V=I*R or Ohm's Law*

This formula notes that Voltage = Amps x Resistance.

Definition of Power or Work

For electricity to do useful work, either one needs a high voltage and at least a little electrical flow, amps, or we need a lot of flow and at least some pressure, volts. When one has both pressure and flow, or volts and amps, work can be done. This relationship is described in the following foundational formula.

*Volts*Amps=Watts*

The larger the watts number, the more work that can be done.

1000 watts is called 1 Kilowatt. 1 Kilowatt by definition = 1.34 Horse Power = 3,415 British Thermal Units (BTU) produced in 1 hour. This is enough heat to boil 3.54 lbs. of water or about 1/3 gallon of water in 1 hour.¹

Back Ground Calculations

The following calculations look at potential solar process heat available to the system as well as expected and actual performance.

¹ Machinery Handbook 23, Industrial Press Inc. NY, pg. 2440

1	Lenses																		
1.1	On the Test the lenses are:			18.5	sq ft														
1.2				15.5	units														
1.3				286.75	sq ft														
1.4				0.0929	meter/sq ft														
1.5				26.6	sq meters														
2	Average Energy Capture Available at																		
2.1				7.2	kWh/m^2/day	Based on Solar Data for Delta													
2.2	Average Sun Hour per Day.																		
2.3	Sunrise			7:09	AM														
2.4	Sunset			7:45	PM														
2.5	Total Sun Span			12.5	hours														
2.6	Hours of Significant Contribution			10		80% of the hours create most of the contribution													
2.7	Average Per Hour			0.72	kWh/m^2/hr														
3	Potential Energy Capture																		
3.1	Per Set of Lenses			19.18	kwatts	This is if the lenses were 100% efficient													
3.2	Lens Capture Efficiency			50%															
3.3	Energy Available at Lens Efficiency			9.59	kwatts														
4	"Colorado" Sterling Engine Efficiency			28%		Based on Designers Statement													
4.1	Efficiency Untuned in Lower Curve Portion			6%		"Colorado" while available is not the perfect size match.													
4.2	Potential Electrical Output from "Colorado"			0.537061	Kwatts														
5	Equivalent BTU Capture in Water																		
5.1	Energy Available			9.59	kwatts														
5.2	Time to Boil Away 1 Gallon of water																		
5.3	at 1 kwatt			3.54	lbs H2O Evap/Hour														
5.4	With Available Energy			33.94993	lbs H2O Evap/Hour														
5.5				8.34	lbs H2O/Gallon														
5.6	Total Water Boiled off in 1 hour			4.070735	5 Gallons														

The following calculations look at the reasonableness of the data. Using the formula, Volts = Amps * Ohms, to confirm that the data and the resistor make sense.

	Volts	Amps	Watts Calc		
9/5/2018 15:58	134.81	4.24	571.5944		
	Volts at Generator			134.81	Volts
	Amps at Generator			4.24	Amps
	Load Resistance			35	Ohms
	Forumula Definition				
	V=I*R			148.4	Volts
	Controler Loss			9%	
So based on losses through the controler, it is resonsnable.					

Thus, the data check shows that voltage, amps, and resistance are balanced within 9%. From this one can concluded that data points are realistic, and it therefore follows that the watts calculation makes sense.

Conclusion

Clearly, by the most basic definitions of electrical power, the Johnson Fresnel lens system produces enough solar process heat to run a Sterling engine and produce electricity. Selecting a Sterling engine sized for this application and tuning the engine - generator will likely improve performance.

Researchers

Johnny Kraczek MET

Johnny Kraczek is a 30 year senior engineer and technologist with extensive experience in mechanical, manufacturing, automation, process and renewable energy engineering projects. He has worked on renewable energy missions internationally and has lead extensive research directed toward solving the energy problems of islands in the Pacific and Caribbean. As a speaker on renewable energy and sustainable energy systems, he has presented at US energy gatherings, and spoken at conferences in India and presented to 33 central and south American Nations delegates at a Central America Conference sponsored by the United Nations in the Dominican Republic.

Jeffery Jorgenson EE PE

Jeff Jorgensen has over 34 years of experience in the design and operation of electrical distribution systems, instrumentation and process control systems. He possesses a high level of knowledge in electrical power engineering with strengths in electrical studies including load flow, voltage drop, short circuit, protective device coordination and arc flash.

Kerm Jackson ME PE

Kerm Jackson, a Senior Mechanical Engineer has nearly 40 years of mechanical engineering experience working on both renewable energy projects, industrial and complex DOD cleanup projects.

Paul Freeman MFET

Paul Freeman is a Manufacturing Engineer and Technical Writer with significant experience in cutting edge renewable energy technology and it's manufacturing process.

Appendix A

Test Data Notation

The test data is delivered from the controller in a Comma Delimited File with the following headings of interest (and more):

Date/Time	Drive Voltage (VDC)	Current (A_rms)	Power (W) – (Algorithm)	Heater Head Temp (degC)	Heater Head Temp Setpoint (degC)	Generator Voltage (ADC Counts)	DC Voltage (VDC)	Hall Sensor Counter	Generator State	Pump Set Speed	Pump Actual Speed
-----------	---------------------	-----------------	-------------------------	-------------------------	----------------------------------	--------------------------------	------------------	---------------------	-----------------	----------------	-------------------

For this study, the columns of interest are:

Date/Time – Recording the moment the data was sampled

Drive Voltage – This is the voltage coming off of the “Colorado” Sterling generator

Current (A_rms) – This Amperage pushed out by the generator

Power Watts – Algorithm – This number is not the watts generated by the Sterling Engine, but power calculated from the head temperature algorithms. The “Colorado” Engineers note that this number as well as the head temperature is based on variables and constants set up during the Infinia Power Dish use, so they are specific to a different application. Therefore this number not used in this study.

Generator Voltage (ADC Counts) – Is actually not a voltage but a number representing cycles and it is not used.

DC Voltage (VDC) – This number represents the voltage coming out of the controller on its way to the resistor.

Generator State – This column of data tells declares when the engine is not running, warming up, or running.

“None” means the motor is not yet exposed to sun heat. As the lenses are brought into alignment with the sun, the sterling starts to receive some process heat and begins “BUMPING”. Once the heat reaches a level that the unit can produce power the status changes to “RUNNING”.

The remaining columns in the data are extraneous to this study.

Date/Time	Drive Voltage (VDC)	Current (A_rms)	Power (W) - Algorithm	Heater Head Temp (degC) - Algorithm	Heater Head Temp Setpoint (degC)	Generator Voltage (ADC Counts)	DC Voltage (VDC)	Hall Sensor Counter	Generator State	Pump Set Speed	Pump Actual Speed
9/5/2018 13:58	0	0	0	0	0	0	0	0 None		0	0
9/5/2018 13:58	0	0	0	0	0	0	0	0 None		0	0
9/5/2018 13:58	0	0	0	0	0	0	0	0 None		0	0
9/5/2018 13:58	0	0	0	0	0	0	0	0 None		0	0
9/5/2018 13:58	0	0	0	0	0	0	0	0 None		0	0
9/5/2018 13:58	0	0	0	0	0	0	0	0 None		0	0
9/5/2018 13:58	0	0	0	0	0	0	0	0 None		0	0
9/5/2018 13:58	108.2	0	0	-999	560	1	308.77	0 BUMPING		0	0
9/5/2018 13:58	107.7	0	0	-999	560	83	307.73	0 BUMPING		0	0
9/5/2018 13:58	107.71	0	0	-999	560	1	307.74	0 BUMPING		0	0
9/5/2018 13:58	107.55	0	0	-999	560	1	307.28	0 BUMPING		0	0
9/5/2018 13:58	103.75	0	0	-999	560	10	296.45	0 BUMPING		0	0
9/5/2018 13:58	103.27	0	0	-999	560	51	295.06	0 BUMPING		0	0
9/5/2018 13:58	102.78	0	0	-999	560	93	293.68	0 BUMPING		0	0
9/5/2018 13:58	102.86	0	0	-999	560	70	293.9	0 BUMPING		0	0
9/5/2018 13:58	102.36	0	0	-999	560	1	292.48	0 BUMPING		0	0
9/5/2018 13:58	102.49	0	0	-999	560	4	293.35	0 BUMPING		0	0
9/5/2018 13:58	103.2	0	0	-999	560	22	294.88	0 BUMPING		0	0
9/5/2018 13:58	102.97	0	0	-999	560	15	294.21	0 BUMPING		0	0
9/5/2018 13:58	102.25	0	0	-999	560	81	292.39	0 BUMPING		0	0
9/5/2018 13:58	102.8	0	0	-999	560	1	293.73	0 BUMPING		0	0
9/5/2018 13:58	102.76	0	0	-999	560	2	293.61	0 BUMPING		0	0
9/5/2018 13:58	103.07	0	0	-999	560	11	294.16	0 BUMPING		0	0
9/5/2018 13:58	102.69	0	0	-999	560	78	293.4	0 BUMPING		0	0
9/5/2018 13:58	103.04	0	0	-999	560	92	294.41	0 BUMPING		0	0
9/5/2018 13:58	102.9	0	0	-999	560	57	294	0 BUMPING		0	0
9/5/2018 13:58	102.84	0	0	-999	560	1	293.85	0 BUMPING		0	0
9/5/2018 13:58	102.51	0	0	-999	560	5	292.89	0 BUMPING		0	0
9/5/2018 13:58	102.66	0	0	-999	560	25	293.32	0 BUMPING		0	0
9/5/2018 13:58	102.8	0	0	-999	560	90	293.68	0 BUMPING		0	0
9/5/2018 13:58	102.48	0	0	-999	560	75	292.82	0 BUMPING		0	0
9/5/2018 13:58	102.8	0	0	-999	560	1	293.71	0 BUMPING		0	0
9/5/2018 13:58	102.65	0	0	-999	560	2	293.13	0 BUMPING		255	224
9/5/2018 13:58	103.4	0	0	-999	560	13	295.42	0 BUMPING		255	224
9/5/2018 13:58	102.52	0	0	-999	560	78	292.93	0 BUMPING		255	224
9/5/2018 13:58	102.72	0	0	-999	560	91	293.68	0 BUMPING		255	224
9/5/2018 13:58	103.08	0	0	-999	560	57	295.18	0 BUMPING		255	224
9/5/2018 13:58	102.69	0	0	-999	560	1	293.4	0 BUMPING		255	224
9/5/2018 13:58	102.69	0	0	-999	560	5	293.15	0 BUMPING		255	224
9/5/2018 13:58	102.38	0	0	-999	560	26	292.14	0 BUMPING		255	224
9/5/2018 13:58	103.39	0	0	-999	560	91	295.41	0 BUMPING		255	224
9/5/2018 13:58	102.43	0	0	-999	560	76	292.67	0 BUMPING		255	224
9/5/2018 13:58	102.66	0	0	-999	560	1	293.32	0 BUMPING		242	224
9/5/2018 13:58	103.01	0	0	-999	560	2	294.31	0 BUMPING		242	224
9/5/2018 13:58	102.45	0	0	-999	560	13	292.72	0 BUMPING		242	224
9/5/2018 13:58	102.33	0	0	-999	560	77	292.82	0 BUMPING		242	224
9/5/2018 13:58	102.47	0	0	-999	560	90	292.79	0 BUMPING		242	224
9/5/2018 13:58	102.41	0	0	-999	560	47	292.6	0 BUMPING		242	224
9/5/2018 13:58	102.59	0	0	-999	560	1	293.11	0 BUMPING		242	224
9/5/2018 13:58	102.6	0	0	-999	560	6	293.87	0 BUMPING		242	224
9/5/2018 13:58	102.32	0	0	-999	560	26	292.75	0 BUMPING		242	224
9/5/2018 13:58	102.69	0	0	-999	560	91	293.4	0 BUMPING		242	224
9/5/2018 13:58	102.31	0	0	-999	560	75	292.33	0 BUMPING		242	224
9/5/2018 13:59	102.52	0	0	-999	560	1	292.93	0 BUMPING		242	224
9/5/2018 13:59	102.83	0	0	-999	560	2	293.8	0 BUMPING		242	224
9/5/2018 13:59	102.4	0	0	-999	560	12	293.15	0 BUMPING		242	224
9/5/2018 13:59	102.89	0	0	-999	560	98	293.97	0 BUMPING		242	224
9/5/2018 13:59	102.78	0	0	-999	560	89	293.68	0 BUMPING		242	224

9/5/2018 13:59	102.59	0	0	-999	560	46	293.11	0 BUMPING	242	224
9/5/2018 13:59	102.53	0	0	-999	560	1	293.4	0 BUMPING	242	224
9/5/2018 13:59	103.11	0	0	-999	560	5	294.38	0 BUMPING	242	224
9/5/2018 13:59	102.89	0	0	-999	560	30	293.97	0 BUMPING	242	224
9/5/2018 13:59	102.38	0	0	-999	560	91	292.12	0 BUMPING	242	224
9/5/2018 13:59	103.22	0	0	-999	560	73	294.93	0 BUMPING	242	224
9/5/2018 13:59	102.32	0	0	-999	560	1	292.34	0 BUMPING	242	224
9/5/2018 13:59	102.77	0	0	-999	560	2	293.64	0 BUMPING	242	224
9/5/2018 13:59	102.69	0	0	-999	560	13	293.66	0 BUMPING	242	224
9/5/2018 13:59	102.65	0	0	-999	560	98	293.3	0 BUMPING	242	224
9/5/2018 13:59	103.09	0	0	-999	560	89	294.55	0 BUMPING	242	224
9/5/2018 13:59	102.36	0	0	-999	560	46	293.2	0 BUMPING	242	224
9/5/2018 13:59	102.95	0	0	-999	560	1	294.16	0 BUMPING	242	224
9/5/2018 13:59	102.78	0	0	-999	560	6	293.68	0 BUMPING	242	224
9/5/2018 13:59	101.9	0	0	-999	560	30	291.64	0 BUMPING	242	224
9/5/2018 13:59	102.43	0	0	-999	560	91	292.67	0 BUMPING	242	224
9/5/2018 13:59	102.76	0	0	-999	560	76	293.61	0 BUMPING	242	224
9/5/2018 13:59	102.53	0	0	-999	560	1	291.93	0 BUMPING	242	224
9/5/2018 13:59	103.28	0	0	-999	560	3	295.87	0 BUMPING	242	224
9/5/2018 13:59	102.39	0	0	-999	560	12	292.84	0 BUMPING	242	224
9/5/2018 13:59	103.08	0	0	-999	560	98	294.52	0 BUMPING	242	224
9/5/2018 13:59	103.04	0	0	-999	560	89	294.17	0 BUMPING	242	224
9/5/2018 13:59	102.39	0	0	-999	560	46	293.01	0 BUMPING	242	224
9/5/2018 13:59	100.83	0	0	-999	560	1	288.1	0 BUMPING	242	224
9/5/2018 13:59	104.77	0	0	-999	560	6	298.25	0 BUMPING	242	224
9/5/2018 13:59	101.72	0	0	-999	560	35	290.65	0 BUMPING	242	224
9/5/2018 13:59	102.41	0	0	-999	560	91	292.62	0 BUMPING	242	224
9/5/2018 13:59	103.32	0	0	-999	560	73	295.22	0 BUMPING	242	224
9/5/2018 13:59	102.14	0	0	-999	560	1	291.93	0 BUMPING	242	224
9/5/2018 13:59	101.4	0	0	-999	560	3	289.73	0 BUMPING	242	224
9/5/2018 13:59	101.97	0	0	-999	560	15	291.35	0 BUMPING	242	224
9/5/2018 13:59	101.66	0	0	-999	560	98	290.27	0 BUMPING	242	224
9/5/2018 13:59	102.63	0	0	-999	560	86	293.23	0 BUMPING	242	224
9/5/2018 13:59	101.59	0	0	-999	560	32	290.26	0 BUMPING	242	224
9/5/2018 13:59	102.42	0	0	-999	560	1	292.65	0 BUMPING	242	224
9/5/2018 13:59	101.77	0	0	-999	560	7	290.77	0 BUMPING	242	224
9/5/2018 13:59	102.33	0	0	-999	560	36	292.39	0 BUMPING	242	224
9/5/2018 13:59	102.54	0	0	-999	560	90	292.98	0 BUMPING	242	224
9/5/2018 13:59	102.31	0	0	-999	560	80	292.28	0 BUMPING	242	224
9/5/2018 13:59	102.92	0	0	-999	560	1	294.07	0 BUMPING	242	224
9/5/2018 13:59	101.66	0	0	-999	560	3	290.48	0 BUMPING	242	224
9/5/2018 13:59	102.43	0	0	-999	560	15	293.11	0 BUMPING	242	224
9/5/2018 13:59	102.68	0	0	-999	560	96	293.39	0 BUMPING	242	224
9/5/2018 13:59	99.09	0	0	-999	560	86	283.12	0 BUMPING	242	224
9/5/2018 13:59	99.03	0	0	-999	560	32	293.73	0 BUMPING	242	224
9/5/2018 13:59	102.03	0	0	-999	560	1	292.04	0 BUMPING	242	224
9/5/2018 13:59	102.11	0	0	-999	560	7	291.74	0 BUMPING	242	224
9/5/2018 13:59	102.69	0	0	-999	560	36	293.42	0 BUMPING	242	224
9/5/2018 13:59	102.71	0	0	-999	560	91	294.17	0 BUMPING	242	224
9/5/2018 13:59	102.33	0	0	-999	560	76	292.38	0 BUMPING	242	224
9/5/2018 13:59	101.66	0	0	-999	560	1	290.48	0 BUMPING	242	224
9/5/2018 13:59	102.48	0	0	-999	560	3	293.52	0 BUMPING	242	224
9/5/2018 13:59	102.16	0	0	-999	560	17	291.88	0 BUMPING	242	224
9/5/2018 13:59	102.83	0	0	-999	560	97	293.8	0 BUMPING	242	224
9/5/2018 14:00	102.89	0	0	-999	560	84	293.97	0 BUMPING	242	224
9/5/2018 14:00	98.02	0	0	-999	560	31	290.12	0 BUMPING	242	224
9/5/2018 14:00	103.22	0	0	-999	560	1	294.91	0 BUMPING	242	224
9/5/2018 14:00	102.38	0	0	-999	560	7	292.51	0 BUMPING	242	224
9/5/2018 14:00	102.95	0	0	-999	560	36	293.46	0 BUMPING	242	224
9/5/2018 14:00	103.04	0	0	-999	560	90	294.41	0 BUMPING	242	224
9/5/2018 14:00	102.45	0	0	-999	560	75	292.74	0 BUMPING	242	224
9/5/2018 14:00	103.4	0	0	-999	560	1	295.42	0 BUMPING	242	224
9/5/2018 14:00	101.5	0	0	-999	560	3	290.53	0 BUMPING	242	224
9/5/2018 14:00	102.84	0	0	-999	560	15	293.71	0 BUMPING	242	224
9/5/2018 14:00	102.9	0	0	-999	560	95	294	0 BUMPING	242	224

9/5/2018 14:00	102.38	0	0	-999	560	83	292.99	0 BUMPING	242	224
9/5/2018 14:00	97.36	0	0	-999	560	16	278.19	0 BUMPING	242	224
9/5/2018 14:00	102.92	0	0	-999	560	1	294.07	0 BUMPING	242	224
9/5/2018 14:00	102.47	0	0	-999	560	7	291.93	0 BUMPING	242	224
9/5/2018 14:00	103.08	0	0	-999	560	43	294.52	0 BUMPING	242	224
9/5/2018 14:00	102.32	0	0	-999	560	97	292.79	0 BUMPING	242	224
9/5/2018 14:00	102.35	0	0	-999	560	75	292.43	0 BUMPING	242	224
9/5/2018 14:00	102.68	0	0	-999	560	1	292.7	0 BUMPING	242	224
9/5/2018 14:00	102.71	0	0	-999	560	4	293.47	0 BUMPING	242	224
9/5/2018 14:00	102.73	0	0	-999	560	17	293.52	0 BUMPING	242	224
9/5/2018 14:00	102.54	0	0	-999	560	94	292.81	0 BUMPING	242	224
9/5/2018 14:00	102.96	0	0	-999	560	81	294.19	0 BUMPING	242	224
9/5/2018 14:00	98.79	0	0	-999	560	16	282.26	0 BUMPING	242	224
9/5/2018 14:00	102.58	0	0	-999	560	1	293.1	0 BUMPING	242	224
9/5/2018 14:00	102.66	0	0	-999	560	7	293.32	0 BUMPING	242	224
9/5/2018 14:00	102.85	0	0	-999	560	42	293.87	0 BUMPING	242	224
9/5/2018 14:00	102.03	0	0	-999	560	96	291.52	0 BUMPING	242	224
9/5/2018 14:00	102.83	0	0	-999	560	75	293.2	0 BUMPING	242	224
9/5/2018 14:00	102.68	0	0	-999	560	1	293.37	0 BUMPING	242	224
9/5/2018 14:00	102.98	0	0	-999	560	3	294.23	0 BUMPING	242	224
9/5/2018 14:00	102.38	0	0	-999	560	17	293.59	0 BUMPING	242	224
9/5/2018 14:00	102.2	0	0	-999	560	93	292.02	0 BUMPING	242	224
9/5/2018 14:00	102.68	0	0	-999	560	82	293.37	0 BUMPING	242	224
9/5/2018 14:00	102.41	0	0	-999	560	16	279.87	0 BUMPING	242	224
9/5/2018 14:00	102.38	0	0	-999	560	1	292.28	0 BUMPING	242	224
9/5/2018 14:00	100.82	0	0	-999	560	8	288.07	0 BUMPING	242	224
9/5/2018 14:00	103.66	0	0	-999	560	43	296.19	0 BUMPING	242	224
9/5/2018 14:00	102.41	0	0	-999	560	95	292.96	0 BUMPING	242	224
9/5/2018 14:00	103.41	0	0	-999	560	70	295.48	0 BUMPING	242	224
9/5/2018 14:00	102.42	0	0	-999	560	1	292.63	0 BUMPING	242	224
9/5/2018 14:00	102.65	0	0	-999	560	3	293.78	0 BUMPING	242	224
9/5/2018 14:00	102.68	0	0	-999	560	19	293.39	0 BUMPING	242	224
9/5/2018 14:00	101.37	0	0	-999	560	92	289.64	0 BUMPING	242	224
9/5/2018 14:00	103.56	0	0	-999	560	82	294.93	0 BUMPING	242	224
9/5/2018 14:00	102.57	0	0	-999	560	1	293.06	0 BUMPING	242	224
9/5/2018 14:00	102.71	0	0	-999	560	1	293.47	0 BUMPING	242	224
9/5/2018 14:00	102.91	0	0	-999	560	8	294.04	0 BUMPING	242	224
9/5/2018 14:00	102.7	0	0	-999	560	43	293.52	0 BUMPING	242	224
9/5/2018 14:00	103.37	0	0	-999	560	94	295.34	0 BUMPING	242	224
9/5/2018 14:00	102.94	0	0	-999	560	70	294.12	0 BUMPING	242	224
9/5/2018 14:00	101.99	0	0	-999	560	1	292.19	0 BUMPING	242	224
9/5/2018 14:00	103.48	0	0	-999	560	4	295.66	0 BUMPING	242	224
9/5/2018 14:00	102.92	0	0	-999	560	19	294.07	0 BUMPING	242	224
9/5/2018 14:00	103	0	0	-999	560	92	294.29	0 BUMPING	242	224
9/5/2018 14:00	102.1	0	0	-999	560	81	291.71	0 BUMPING	242	224
9/5/2018 14:00	102.26	0	0	-999	560	1	292.17	0 BUMPING	242	224
9/5/2018 14:00	103.14	0	0	-999	560	2	294.69	0 BUMPING	242	224
9/5/2018 14:00	102.56	0	0	-999	560	9	293.64	0 BUMPING	242	224
9/5/2018 14:01	100.62	0	0	-999	560	51	287.5	0 BUMPING	242	224
9/5/2018 14:01	102.35	0	0	-999	560	94	292.45	0 BUMPING	242	224
9/5/2018 14:01	102.16	0	0	-999	560	69	291.33	0 BUMPING	242	224
9/5/2018 14:01	103.02	0	0	-999	560	1	294.45	0 BUMPING	242	224
9/5/2018 14:01	103.09	0	0	-999	560	4	294.79	0 BUMPING	242	224
9/5/2018 14:01	100.92	0	0	-999	560	19	288.36	0 BUMPING	242	224
9/5/2018 14:01	102.45	0	0	-999	560	93	292.98	0 BUMPING	242	224
9/5/2018 14:01	102.25	0	0	-999	560	81	292.14	0 BUMPING	242	224
9/5/2018 14:01	101.87	0	0	-999	560	1	291.06	0 BUMPING	242	224
9/5/2018 14:01	102.22	0	0	-999	560	1	292.31	0 BUMPING	242	224
9/5/2018 14:01	103.42	0	0	-999	560	10	295.51	0 BUMPING	242	224
9/5/2018 14:01	102.41	0	0	-999	560	51	292.6	0 BUMPING	242	224
9/5/2018 14:01	103.75	0	0	-999	560	94	296.5	0 BUMPING	242	224
9/5/2018 14:01	102.29	0	0	-999	560	63	292.28	0 BUMPING	242	224
9/5/2018 14:01	102.38	0	0	-999	560	1	292.51	0 BUMPING	242	224
9/5/2018 14:01	102.66	0	0	-999	560	3	293.34	0 BUMPING	242	224
9/5/2018 14:01	103.2	0	0	-999	560	17	294.82	0 BUMPING	242	224

9/5/2018 14:01	102.49	0	0	-999	560	92	292.84	0 BUMPING	242	224
9/5/2018 14:01	103.45	0	0	-999	560	84	295.59	0 BUMPING	242	224
9/5/2018 14:01	102.63	0	0	-999	560	17	280.02	0 BUMPING	242	224
9/5/2018 14:01	103	0	0	-999	560	1	294.29	0 BUMPING	242	224
9/5/2018 14:01	102.66	0	0	-999	560	8	293.34	0 BUMPING	242	224
9/5/2018 14:01	102.36	0	0	-999	560	42	292.62	0 BUMPING	242	224
9/5/2018 14:01	102.48	0	0	-999	560	94	292.82	0 BUMPING	242	224
9/5/2018 14:01	102.75	0	0	-999	560	68	293.58	0 BUMPING	242	224
9/5/2018 14:01	102.81	0	0	-999	560	1	294.45	0 BUMPING	242	224
9/5/2018 14:01	101.9	0	0	-999	560	4	291.16	0 BUMPING	242	224
9/5/2018 14:01	102.84	0	0	-999	560	19	293.85	0 BUMPING	242	224
9/5/2018 14:01	103.19	0	0	-999	560	93	294.84	0 BUMPING	242	224
9/5/2018 14:01	103.12	0	0	-999	560	83	294.64	0 BUMPING	242	224
9/5/2018 14:01	102.63	0	0	-999	560	1	293.23	0 BUMPING	242	224
9/5/2018 14:01	103.23	0	0	-999	560	2	294.96	0 BUMPING	242	224
9/5/2018 14:01	102.53	0	0	-999	560	8	292.34	0 BUMPING	242	224
9/5/2018 14:01	103.37	0	0	-999	560	51	295.36	0 BUMPING	242	224
9/5/2018 14:01	101.83	0	0	-999	560	91	290.94	0 BUMPING	242	224
9/5/2018 14:01	102.13	0	0	-999	560	68	291.81	0 BUMPING	242	224
9/5/2018 14:01	102.69	0	0	-999	560	1	292.34	0 BUMPING	242	224
9/5/2018 14:01	102.92	0	0	-999	560	4	294.07	0 BUMPING	242	224
9/5/2018 14:01	102.32	0	0	-999	560	20	292.34	0 BUMPING	242	224
9/5/2018 14:01	102.31	0	0	-999	560	93	293.15	0 BUMPING	242	224
9/5/2018 14:01	102.86	0	0	-999	560	81	293.88	0 BUMPING	242	224
9/5/2018 14:01	102.65	0	0	-999	560	1	293.28	0 BUMPING	242	224
9/5/2018 14:01	103.07	0	0	-999	560	1	293.78	0 BUMPING	242	224
9/5/2018 14:01	103.01	0	0	-999	560	10	294.33	0 BUMPING	242	224
9/5/2018 14:01	102.33	0	0	-999	560	42	292.39	0 BUMPING	242	224
9/5/2018 14:01	102.5	0	0	-999	560	93	292.87	0 BUMPING	242	224
9/5/2018 14:01	102.2	0	0	-999	560	61	292	0 BUMPING	242	224
9/5/2018 14:01	102.38	0	0	-999	560	1	292.51	0 BUMPING	242	224
9/5/2018 14:01	102.89	0	0	-999	560	4	293.97	0 BUMPING	242	224
9/5/2018 14:01	102.25	0	0	-999	560	20	292.39	0 BUMPING	242	224
9/5/2018 14:01	102.6	0	0	-999	560	94	292.87	0 BUMPING	242	224
9/5/2018 14:01	102.63	0	0	-999	560	81	293.23	0 BUMPING	242	224
9/5/2018 14:01	102.46	0	0	-999	560	1	292.75	0 BUMPING	242	224
9/5/2018 14:01	101.84	0	0	-999	560	1	292.07	0 BUMPING	242	224
9/5/2018 14:01	102.36	0	0	-999	560	10	292.46	0 BUMPING	242	224
9/5/2018 14:01	102.41	0	0	-999	560	50	292.62	0 BUMPING	242	224
9/5/2018 14:01	101.95	0	0	-999	560	91	290.72	0 BUMPING	242	224
9/5/2018 14:01	102.41	0	0	-999	560	60	292.62	0 BUMPING	242	224
9/5/2018 14:01	102.69	0	0	-999	560	1	293.4	0 BUMPING	242	224
9/5/2018 14:02	101.69	0	0	-999	560	4	292.34	0 BUMPING	242	224
9/5/2018 14:02	101.57	0	0	-999	560	23	290.22	0 BUMPING	242	224
9/5/2018 14:02	102.8	0	0	-999	560	93	293.71	0 BUMPING	242	224
9/5/2018 14:02	101.72	0	0	-999	560	81	289.83	0 BUMPING	242	224
9/5/2018 14:02	102.8	0	0	-999	560	1	293.71	0 BUMPING	242	224
9/5/2018 14:02	102.71	0	0	-999	560	2	293.46	0 BUMPING	242	224
9/5/2018 14:02	102.14	0	0	-999	560	10	291.85	0 BUMPING	242	224
9/5/2018 14:02	103.08	0	0	-999	560	51	293.83	0 BUMPING	242	224
9/5/2018 14:02	102.42	0	0	-999	560	90	292.63	0 BUMPING	242	224
9/5/2018 14:02	101.23	0	0	-999	560	59	289.23	0 BUMPING	242	224
9/5/2018 14:02	102.84	0	0	-999	560	1	294.86	0 BUMPING	242	224
9/5/2018 14:02	102.1	0	0	-999	560	5	291.73	0 BUMPING	242	224
9/5/2018 14:02	102.56	0	0	-999	560	23	293.03	0 BUMPING	242	224
9/5/2018 14:02	102.45	0	0	-999	560	94	292.87	0 BUMPING	242	224
9/5/2018 14:02	102.63	0	0	-999	560	86	293.25	0 BUMPING	242	224
9/5/2018 14:02	102.53	0	0	-999	560	1	292.96	0 BUMPING	242	224
9/5/2018 14:02	102.38	0	0	-999	560	2	292.51	0 BUMPING	242	224
9/5/2018 14:02	102.57	0	0	-999	560	9	292.65	0 BUMPING	242	224
9/5/2018 14:02	102.07	0	0	-999	560	62	291.64	0 BUMPING	242	224
9/5/2018 14:02	102.72	0	0	-999	560	90	293.49	0 BUMPING	242	224
9/5/2018 14:02	102.79	0	0	-999	560	59	293.7	0 BUMPING	242	224
9/5/2018 14:02	102.22	0	0	-999	560	1	292.5	0 BUMPING	242	224
9/5/2018 14:02	102.36	0	0	-999	560	5	292.48	0 BUMPING	242	224

9/5/2018 14:02	102.93	0	0	-999	560	23	294.09	0 BUMPING	242	224
9/5/2018 14:02	102.1	0	0	-999	560	92	291.71	0 BUMPING	242	224
9/5/2018 14:02	102.28	0	0	-999	560	85	292.24	0 BUMPING	242	224
9/5/2018 14:02	102.53	0	0	-999	560	1	292.94	0 BUMPING	242	224
9/5/2018 14:02	102.19	0	0	-999	560	1	292.24	0 BUMPING	242	224
9/5/2018 14:02	101.98	0	0	-999	560	11	291.37	0 BUMPING	242	224
9/5/2018 14:02	102.39	0	0	-999	560	62	292.55	0 BUMPING	242	224
9/5/2018 14:02	101.8	0	0	-999	560	88	290.12	0 BUMPING	242	224
9/5/2018 14:02	101.95	0	0	-999	560	58	291.08	0 BUMPING	242	224
9/5/2018 14:02	102.9	0	0	-999	560	1	294	0 BUMPING	242	224
9/5/2018 14:02	102.38	0	0	-999	560	5	292.36	0 BUMPING	242	224
9/5/2018 14:02	102.53	0	0	-999	560	26	292.96	0 BUMPING	242	224
9/5/2018 14:02	102.43	0	0	-999	560	99	292.67	0 BUMPING	242	224
9/5/2018 14:02	102.01	0	0	-999	560	83	291.45	0 BUMPING	242	224
9/5/2018 14:02	102	0	0	-999	560	1	290.79	0 BUMPING	242	224
9/5/2018 14:02	102.55	0	0	-999	560	2	293.01	0 BUMPING	242	224
9/5/2018 14:02	102.35	0	0	-999	560	11	292.43	0 BUMPING	242	224
9/5/2018 14:02	102.5	0	0	-999	560	62	292.79	0 BUMPING	242	224
9/5/2018 14:02	102.35	0	0	-999	560	86	292.43	0 BUMPING	242	224
9/5/2018 14:02	102.28	0	0	-999	560	53	292.24	0 BUMPING	242	224
9/5/2018 14:02	102.78	0	0	-999	560	1	293.68	0 BUMPING	242	224
9/5/2018 14:02	102.39	0	0	-999	560	5	292.33	0 BUMPING	242	224
9/5/2018 14:02	101.98	0	0	-999	560	26	291.39	0 BUMPING	242	224
9/5/2018 14:02	101.95	0	0	-999	560	98	291.3	0 BUMPING	242	224
9/5/2018 14:02	103.74	0	0	-999	560	85	296.42	0 BUMPING	242	224
9/5/2018 14:02	101.25	0	0	-999	560	1	289.59	0 BUMPING	242	224
9/5/2018 14:02	102.21	0	0	-999	560	2	292.04	0 BUMPING	242	224
9/5/2018 14:02	102.8	0	0	-999	560	11	293.71	0 BUMPING	242	224
9/5/2018 14:02	101.54	0	0	-999	560	61	289.61	0 BUMPING	242	224
9/5/2018 14:02	102.09	0	0	-999	560	86	291.69	0 BUMPING	242	224
9/5/2018 14:02	102.62	0	0	-999	560	52	293.2	0 BUMPING	242	224
9/5/2018 14:02	102.53	0	0	-999	560	1	292.34	0 BUMPING	242	224
9/5/2018 14:02	101.91	0	0	-999	560	5	291.61	0 BUMPING	242	224
9/5/2018 14:02	102.71	0	0	-999	560	26	293.47	0 BUMPING	242	224
9/5/2018 14:02	101.6	0	0	-999	560	98	290.08	0 BUMPING	242	224
9/5/2018 14:02	101.98	0	0	-999	560	81	291.37	0 BUMPING	242	224
9/5/2018 14:02	102.26	0	0	-999	560	1	292.19	0 BUMPING	242	224
9/5/2018 14:03	102.57	0	0	-999	560	2	293.08	0 BUMPING	242	224
9/5/2018 14:03	102.51	0	0	-999	560	11	292.77	0 BUMPING	242	224
9/5/2018 14:03	102.25	0	0	-999	560	77	292.14	0 BUMPING	242	224
9/5/2018 14:03	102.08	0	0	-999	560	86	291.66	0 BUMPING	242	224
9/5/2018 14:03	102.57	0	0	-999	560	52	292.89	0 BUMPING	242	224
9/5/2018 14:03	102.17	0	0	-999	560	1	291.92	0 BUMPING	242	224
9/5/2018 14:03	102.32	0	0	-999	560	5	292.34	0 BUMPING	242	224
9/5/2018 14:03	101.99	0	0	-999	560	26	292.12	0 BUMPING	242	224
9/5/2018 14:03	102.98	0	0	-999	560	96	294.24	0 BUMPING	242	224
9/5/2018 14:03	102.03	0	0	-999	560	83	291.44	0 BUMPING	242	224
9/5/2018 14:03	102.26	0	0	-999	560	1	292.19	0 BUMPING	242	224
9/5/2018 14:03	101.81	0	0	-999	560	2	291.15	0 BUMPING	242	224
9/5/2018 14:03	102.54	0	0	-999	560	13	292.98	0 BUMPING	242	224
9/5/2018 14:03	101.74	0	0	-999	560	77	290.68	0 BUMPING	242	224
9/5/2018 14:03	102.51	0	0	-999	560	87	293.06	0 BUMPING	242	224
9/5/2018 14:03	102.47	0	0	-999	560	44	292.77	0 BUMPING	242	224
9/5/2018 14:03	101.83	0	0	-999	560	1	290.94	0 BUMPING	242	224
9/5/2018 14:03	102.44	0	0	-999	560	5	292.7	0 BUMPING	242	224
9/5/2018 14:03	102.2	0	0	-999	560	26	291.95	0 BUMPING	242	224
9/5/2018 14:03	102.31	0	0	-999	560	97	292.33	0 BUMPING	242	224
9/5/2018 14:03	101.95	0	0	-999	560	81	291.28	0 BUMPING	242	224
9/5/2018 14:03	101.48	0	0	-999	560	1	290.39	0 BUMPING	242	224
9/5/2018 14:03	102.16	0	0	-999	560	2	291.88	0 BUMPING	242	224
9/5/2018 14:03	102.05	0	0	-999	560	13	291.59	0 BUMPING	242	224
9/5/2018 14:03	102.37	0	0	-999	560	77	292.36	0 BUMPING	242	224
9/5/2018 14:03	101.42	0	0	-999	560	85	289.78	0 BUMPING	242	224
9/5/2018 14:03	102.35	0	0	-999	560	43	292.45	0 BUMPING	242	224
9/5/2018 14:03	102.08	0	0	-999	560	1	291.45	0 BUMPING	242	224

9/5/2018 14:03	101.87	0	0	-999	560	5	290.46	0 BUMPING	242	224
9/5/2018 14:03	101.32	0	0	-999	560	26	289.85	0 BUMPING	242	224
9/5/2018 14:03	102.45	0	0	-999	560	95	292.74	0 BUMPING	242	224
9/5/2018 14:03	101.36	0	0	-999	560	79	290.6	0 BUMPING	242	224
9/5/2018 14:03	102.1	0	0	-999	560	1	291.71	0 BUMPING	242	224
9/5/2018 14:03	102.56	0	0	-999	560	2	293.05	0 BUMPING	242	224
9/5/2018 14:03	101.13	0	0	-999	560	13	288.96	0 BUMPING	242	224
9/5/2018 14:03	101.63	0	0	-999	560	93	290.39	0 BUMPING	242	224
9/5/2018 14:03	101.25	0	0	-999	560	85	289.3	0 BUMPING	242	224
9/5/2018 14:03	102.24	0	0	-999	560	43	292.12	0 BUMPING	242	224
9/5/2018 14:03	101.61	0	0	-999	560	1	290.32	0 BUMPING	242	224
9/5/2018 14:03	102.44	0	0	-999	560	6	292.7	0 BUMPING	242	224
9/5/2018 14:03	101.8	0	0	-999	560	30	290.87	0 BUMPING	242	224
9/5/2018 14:03	101.57	0	0	-999	560	96	290.26	0 BUMPING	242	224
9/5/2018 14:03	102.02	0	0	-999	560	76	291.49	0 BUMPING	242	224
9/5/2018 14:03	102.1	0	0	-999	560	1	291.71	0 BUMPING	242	224
9/5/2018 14:03	101.8	0	0	-999	560	2	290.5	0 BUMPING	242	224
9/5/2018 14:03	101.58	0	0	-999	560	15	290.24	0 BUMPING	242	224
9/5/2018 14:03	101.85	0	0	-999	560	92	291.01	0 BUMPING	242	224
9/5/2018 14:03	102.26	0	0	-999	560	85	291.76	0 BUMPING	242	224
9/5/2018 14:03	101.44	0	0	-999	560	32	289.83	0 BUMPING	242	224
9/5/2018 14:03	101.99	0	0	-999	560	1	291.4	0 BUMPING	242	224
9/5/2018 14:03	102	0	0	-999	560	6	291.44	0 BUMPING	242	224
9/5/2018 14:03	102	0	0	-999	560	30	291.57	0 BUMPING	242	224
9/5/2018 14:03	102.38	0	0	-999	560	94	292.51	0 BUMPING	242	224
9/5/2018 14:03	101.67	0	0	-999	560	76	290.5	0 BUMPING	242	224
9/5/2018 14:03	101.47	0	0	-999	560	1	289.93	0 BUMPING	242	224
9/5/2018 14:03	101.76	0	0	-999	560	3	290.75	0 BUMPING	242	224
9/5/2018 14:03	101.36	0	0	-999	560	15	289.62	0 BUMPING	242	224
9/5/2018 14:03	101.47	0	0	-999	560	93	289.93	0 BUMPING	242	224
9/5/2018 14:03	102.01	0	0	-999	560	86	292.39	0 BUMPING	242	224
9/5/2018 14:04	103.45	0	0	-999	560	32	295.59	0 BUMPING	242	224
9/5/2018 14:04	102.1	0	0	-999	560	1	291.73	0 BUMPING	242	224
9/5/2018 14:04	100.71	0	0	-999	560	6	287.52	0 BUMPING	242	224
9/5/2018 14:04	102.13	0	0	-999	560	35	291.8	0 BUMPING	242	224
9/5/2018 14:04	101.72	0	0	-999	560	94	290.44	0 BUMPING	242	224
9/5/2018 14:04	101.64	0	0	-999	560	75	290.63	0 BUMPING	242	224
9/5/2018 14:04	101.22	0	0	-999	560	1	289.21	0 BUMPING	242	224
9/5/2018 14:04	102.78	0	0	-999	560	3	293.68	0 BUMPING	242	224
9/5/2018 14:04	103.26	0	0	-999	560	15	295.03	0 BUMPING	242	224
9/5/2018 14:04	101.83	0	0	-999	560	93	290.89	0 BUMPING	242	224
9/5/2018 14:04	103.13	0	0	-999	560	84	294.67	0 BUMPING	242	224
9/5/2018 14:04	102.66	0	0	-999	560	39	293.32	0 BUMPING	242	224
9/5/2018 14:04	102.86	0	0	-999	560	1	293.15	0 BUMPING	242	224
9/5/2018 14:04	103.07	0	0	-999	560	6	293.37	0 BUMPING	242	224
9/5/2018 14:04	101.95	0	0	-999	560	35	291.3	0 BUMPING	242	224
9/5/2018 14:04	103.01	0	0	-999	560	94	294.33	0 BUMPING	242	224
9/5/2018 14:04	102.39	0	0	-999	560	74	293.4	0 BUMPING	242	224
9/5/2018 14:04	102.58	0	0	-999	560	1	293.1	0 BUMPING	242	224
9/5/2018 14:04	102.66	0	0	-999	560	3	293.34	0 BUMPING	242	224
9/5/2018 14:04	102.56	0	0	-999	560	15	292.96	0 BUMPING	242	224
9/5/2018 14:04	102.25	0	0	-999	560	93	292.14	0 BUMPING	242	224
9/5/2018 14:04	102.73	0	0	-999	560	84	293.52	0 BUMPING	242	224
9/5/2018 14:04	100.78	0	0	-999	560	38	287.96	0 BUMPING	242	224
9/5/2018 14:04	102.93	0	0	-999	560	1	294.11	0 BUMPING	242	224
9/5/2018 14:04	102.39	0	0	-999	560	7	292.55	0 BUMPING	242	224
9/5/2018 14:04	103.5	0	0	-999	560	35	295.71	0 BUMPING	242	224
9/5/2018 14:04	101.79	0	0	-999	560	93	290.38	0 BUMPING	242	224
9/5/2018 14:04	102.33	0	0	-999	560	69	292.39	0 BUMPING	242	224
9/5/2018 14:04	103.07	0	0	-999	560	1	294.5	0 BUMPING	242	224
9/5/2018 14:04	102.26	0	0	-999	560	3	292.58	0 BUMPING	242	224
9/5/2018 14:04	102.66	0	0	-999	560	17	293.34	0 BUMPING	242	224
9/5/2018 14:04	102.05	0	0	-999	560	92	291.57	0 BUMPING	242	224
9/5/2018 14:04	102.17	0	0	-999	560	92	291.11	0 BUMPING	242	224
9/5/2018 14:04	99.56	0	0	-999	560	22	284.47	0 BUMPING	242	224

9/5/2018 14:04	101.86	0	0	-999	560	1	291.04	0 BUMPING	242	224
9/5/2018 14:04	102.53	0	0	-999	560	7	292.96	0 BUMPING	242	224
9/5/2018 14:04	102.04	0	0	-999	560	35	291.15	0 BUMPING	242	224
9/5/2018 14:04	101.25	0	0	-999	560	91	289.3	0 BUMPING	242	224
9/5/2018 14:04	102.57	0	0	-999	560	69	293.06	0 BUMPING	242	224
9/5/2018 14:04	101.83	0	0	-999	560	1	290.5	0 BUMPING	242	224
9/5/2018 14:04	102.22	0	0	-999	560	3	292.05	0 BUMPING	242	224
9/5/2018 14:04	101.66	0	0	-999	560	17	290.48	0 BUMPING	242	224
9/5/2018 14:04	103.34	0	0	-999	560	93	295.27	0 BUMPING	242	224
9/5/2018 14:04	102.23	0	0	-999	560	88	292.1	0 BUMPING	242	224
9/5/2018 14:04	99.02	0	0	-999	560	22	282.93	0 BUMPING	242	224
9/5/2018 14:04	102	0	0	-999	560	1	291.44	0 BUMPING	242	224
9/5/2018 14:04	103	0	0	-999	560	7	295.01	0 BUMPING	242	224
9/5/2018 14:04	102.54	0	0	-999	560	42	292.98	0 BUMPING	242	224
9/5/2018 14:04	103.34	0	0	-999	560	92	295.25	0 BUMPING	242	224
9/5/2018 14:04	102.72	0	0	-999	560	68	293.49	0 BUMPING	242	224
9/5/2018 14:04	102.95	0	0	-999	560	1	294.16	0 BUMPING	242	224
9/5/2018 14:04	101.92	0	0	-999	560	3	291.2	0 BUMPING	242	224
9/5/2018 14:04	102.12	0	0	-999	560	17	291.78	0 BUMPING	242	224
9/5/2018 14:04	101.86	0	0	-999	560	101	290.65	0 BUMPING	242	224
9/5/2018 14:04	101.45	0	0	-999	560	88	289.86	0 BUMPING	242	224
9/5/2018 14:04	98.35	0	0	-999	560	22	281	0 BUMPING	242	224
9/5/2018 14:04	102.75	0	0	-999	560	1	294.43	0 BUMPING	242	224
9/5/2018 14:04	102.44	0	0	-999	560	8	292.7	0 BUMPING	242	224
9/5/2018 14:04	103.01	0	0	-999	560	42	294.33	0 BUMPING	242	224
9/5/2018 14:05	103.2	0	0	-999	560	89	294.12	0 BUMPING	242	224
9/5/2018 14:05	102.19	0	0	-999	560	64	291.97	0 BUMPING	242	224
9/5/2018 14:05	102.63	0	0	-999	560	1	293.23	0 BUMPING	242	224
9/5/2018 14:05	102.92	0	0	-999	560	3	294.07	0 BUMPING	242	224
9/5/2018 14:05	103.31	0	0	-999	560	19	295.18	0 BUMPING	242	224
9/5/2018 14:05	101.9	0	0	-999	560	99	291.16	0 BUMPING	242	224
9/5/2018 14:05	102.74	0	0	-999	560	88	293.56	0 BUMPING	242	224
9/5/2018 14:05	103.1	0	0	-999	560	22	280.28	0 BUMPING	242	224
9/5/2018 14:05	102.83	0	0	-999	560	1	293.8	0 BUMPING	242	224
9/5/2018 14:05	102.6	0	0	-999	560	8	293.15	0 BUMPING	242	224
9/5/2018 14:05	102.75	0	0	-999	560	42	293.16	0 BUMPING	242	224
9/5/2018 14:05	102.57	0	0	-999	560	88	293.06	0 BUMPING	242	224
9/5/2018 14:05	102.33	0	0	-999	560	64	292.39	0 BUMPING	242	224
9/5/2018 14:05	102.25	0	0	-999	560	1	292.16	0 BUMPING	242	224
9/5/2018 14:05	102.57	0	0	-999	560	3	292.86	0 BUMPING	242	224
9/5/2018 14:05	103.24	0	0	-999	560	19	294.98	0 BUMPING	242	224
9/5/2018 14:05	102.45	0	0	-999	560	100	292.74	0 BUMPING	242	224
9/5/2018 14:05	102.8	0	0	-999	560	87	292.82	0 BUMPING	242	224
9/5/2018 14:05	102.84	0	0	-999	560	1	293.85	0 BUMPING	242	224
9/5/2018 14:05	102.89	0	0	-999	560	1	293.99	0 BUMPING	242	224
9/5/2018 14:05	102.5	0	0	-999	560	8	292.86	0 BUMPING	242	224
9/5/2018 14:05	102.52	0	0	-999	560	42	292.93	0 BUMPING	242	224
9/5/2018 14:05	102.75	0	0	-999	560	88	293.11	0 BUMPING	242	224
9/5/2018 14:05	102.48	0	0	-999	560	65	292.81	0 BUMPING	242	224
9/5/2018 14:05	102.38	0	0	-999	560	1	292.65	0 BUMPING	242	224
9/5/2018 14:05	103.11	0	0	-999	560	4	294.6	0 BUMPING	242	224
9/5/2018 14:05	102.71	0	0	-999	560	19	293.47	0 BUMPING	242	224
9/5/2018 14:05	102.49	0	0	-999	560	98	292.6	0 BUMPING	242	224
9/5/2018 14:05	102.57	0	0	-999	560	87	292.65	0 BUMPING	242	224
9/5/2018 14:05	102.96	0	0	-999	560	1	294.19	0 BUMPING	242	224
9/5/2018 14:05	102.72	0	0	-999	560	1	293.51	0 BUMPING	242	224
9/5/2018 14:05	102.73	0	0	-999	560	10	293.52	0 BUMPING	242	224
9/5/2018 14:05	102.33	0	0	-999	560	51	292.38	0 BUMPING	242	224
9/5/2018 14:05	103	0	0	-999	560	89	294.29	0 BUMPING	242	224
9/5/2018 14:05	102.14	0	0	-999	560	64	292.72	0 BUMPING	242	224
9/5/2018 14:05	102.94	0	0	-999	560	1	294.12	0 BUMPING	242	224
9/5/2018 14:05	102.6	0	0	-999	560	4	293.16	0 BUMPING	242	224
9/5/2018 14:05	102.84	0	0	-999	560	19	293.05	0 BUMPING	242	224
9/5/2018 14:05	102.15	0	0	-999	560	97	291.86	0 BUMPING	242	224
9/5/2018 14:05	102.53	0	0	-999	560	85	292.94	0 BUMPING	242	224

9/5/2018 14:05	102.92	0	0	-999	560	1	294.07	0 BUMPING	242	224
9/5/2018 14:05	102.78	0	0	-999	560	1	293.49	0 BUMPING	242	224
9/5/2018 14:05	102.02	0	0	-999	560	10	291.51	0 BUMPING	242	224
9/5/2018 14:05	102.07	0	0	-999	560	51	291.64	0 BUMPING	242	224
9/5/2018 14:05	103.46	0	0	-999	560	89	295.75	0 BUMPING	242	224
9/5/2018 14:05	102.37	0	0	-999	560	60	292.5	0 BUMPING	242	224
9/5/2018 14:05	102.55	0	0	-999	560	1	293.01	0 BUMPING	242	224
9/5/2018 14:05	102.75	0	0	-999	560	4	292.77	0 BUMPING	242	224
9/5/2018 14:05	102.38	0	0	-999	560	19	293.37	0 BUMPING	242	224
9/5/2018 14:05	102.71	0	0	-999	560	98	293.47	0 BUMPING	242	224
9/5/2018 14:05	102.71	0	0	-999	560	85	293.47	0 BUMPING	242	224
9/5/2018 14:05	101.99	0	0	-999	560	1	291.61	0 BUMPING	242	224
9/5/2018 14:05	102.81	0	0	-999	560	1	293.75	0 BUMPING	242	224
9/5/2018 14:05	102.58	0	0	-999	560	10	293.1	0 BUMPING	242	224
9/5/2018 14:05	102.92	0	0	-999	560	51	294.17	0 BUMPING	242	224
9/5/2018 14:05	102.18	0	0	-999	560	88	291.95	0 BUMPING	242	224
9/5/2018 14:05	102.75	0	0	-999	560	60	293.59	0 BUMPING	242	224
9/5/2018 14:05	102.17	0	0	-999	560	1	291.93	0 BUMPING	242	224
9/5/2018 14:05	102.33	0	0	-999	560	4	292.48	0 BUMPING	242	224
9/5/2018 14:06	102.72	0	0	-999	560	19	294.24	0 BUMPING	242	224
9/5/2018 14:06	102.6	0	0	-999	560	97	293.15	0 BUMPING	242	224
9/5/2018 14:06	103.14	0	0	-999	560	85	294.69	0 BUMPING	242	224
9/5/2018 14:06	102.65	0	0	-999	560	1	293.3	0 BUMPING	242	224
9/5/2018 14:06	102.64	0	0	-999	560	2	293.27	0 BUMPING	242	224
9/5/2018 14:06	101.72	0	0	-999	560	10	290.63	0 BUMPING	242	224
9/5/2018 14:06	101.48	0	0	-999	560	51	289.76	0 BUMPING	242	224
9/5/2018 14:06	101.88	0	0	-999	560	87	291.09	0 BUMPING	242	224
9/5/2018 14:06	102.11	0	0	-999	560	59	291.74	0 BUMPING	242	224
9/5/2018 14:06	101.31	0	0	-999	560	1	288.6	0 BUMPING	242	224
9/5/2018 14:06	101.5	0	0	-999	560	5	290.02	0 BUMPING	242	224
9/5/2018 14:06	101.8	0	0	-999	560	22	290.87	0 BUMPING	242	224
9/5/2018 14:06	103.58	0	0	-999	560	97	295.92	0 BUMPING	242	224
9/5/2018 14:06	102.6	0	0	-999	560	82	293.16	0 BUMPING	242	224
9/5/2018 14:06	101.54	0	0	-999	560	1	290.12	0 BUMPING	242	224
9/5/2018 14:06	102.57	0	0	-999	560	2	292.58	0 BUMPING	242	224
9/5/2018 14:06	102.1	0	0	-999	560	11	291.73	0 BUMPING	242	224
9/5/2018 14:06	102.01	0	0	-999	560	62	291.47	0 BUMPING	242	224
9/5/2018 14:06	102	0	0	-999	560	88	291.44	0 BUMPING	242	224
9/5/2018 14:06	102.5	0	0	-999	560	60	292.31	0 BUMPING	242	224
9/5/2018 14:06	101.72	0	0	-999	560	1	290.65	0 BUMPING	242	224
9/5/2018 14:06	102.37	0	0	-999	560	4	292.5	0 BUMPING	242	224
9/5/2018 14:06	102.14	0	0	-999	560	22	291.27	0 BUMPING	242	224
9/5/2018 14:06	101.77	0	0	-999	560	96	290.77	0 BUMPING	242	224
9/5/2018 14:06	102.45	0	0	-999	560	81	292.72	0 BUMPING	242	224
9/5/2018 14:06	101.72	0	0	-999	560	1	290.72	0 BUMPING	242	224
9/5/2018 14:06	102.7	0	0	-999	560	2	293.44	0 BUMPING	242	224
9/5/2018 14:06	101.48	0	0	-999	560	11	289.97	0 BUMPING	242	224
9/5/2018 14:06	102.14	0	0	-999	560	63	291.85	0 BUMPING	242	224
9/5/2018 14:06	102.14	0	0	-999	560	88	291.85	0 BUMPING	242	224
9/5/2018 14:06	102.88	0	0	-999	560	60	293.95	0 BUMPING	242	224
9/5/2018 14:06	102.07	0	0	-999	560	1	291.62	0 BUMPING	242	224
9/5/2018 14:06	101.45	0	0	-999	560	4	289.86	0 BUMPING	242	224
9/5/2018 14:06	102.53	0	0	-999	560	22	292.96	0 BUMPING	242	224
9/5/2018 14:06	101.97	0	0	-999	560	95	291.35	0 BUMPING	242	224
9/5/2018 14:06	103.2	0	0	-999	560	81	294.86	0 BUMPING	242	224
9/5/2018 14:06	102.36	0	0	-999	560	1	292.48	0 BUMPING	242	224
9/5/2018 14:06	103.09	0	0	-999	560	2	294.55	0 BUMPING	242	224
9/5/2018 14:06	102.17	0	0	-999	560	11	291.92	0 BUMPING	242	224
9/5/2018 14:06	102.51	0	0	-999	560	63	292.69	0 BUMPING	242	224
9/5/2018 14:06	102.69	0	0	-999	560	88	293.42	0 BUMPING	242	224
9/5/2018 14:06	101.93	0	0	-999	560	59	291.23	0 BUMPING	242	224
9/5/2018 14:06	103.22	0	0	-999	560	1	294.91	0 BUMPING	242	224
9/5/2018 14:06	102.66	0	0	-999	560	5	294	0 BUMPING	242	224
9/5/2018 14:06	102.29	0	0	-999	560	26	292.28	0 BUMPING	242	224
9/5/2018 14:06	103.22	0	0	-999	560	96	294.93	0 BUMPING	242	224

9/5/2018 14:06	102.41	0	0	-999	560	77	292.6	0 BUMPING	242	224
9/5/2018 14:06	102.9	0	0	-999	560	1	294.02	0 BUMPING	242	224
9/5/2018 14:06	102.9	0	0	-999	560	2	294	0 BUMPING	242	224
9/5/2018 14:06	102.14	0	0	-999	560	11	291.52	0 BUMPING	242	224
9/5/2018 14:06	102.82	0	0	-999	560	79	293.78	0 BUMPING	242	224
9/5/2018 14:06	102.39	0	0	-999	560	87	292.55	0 BUMPING	242	224
9/5/2018 14:06	102.16	0	0	-999	560	58	292.29	0 BUMPING	242	224
9/5/2018 14:06	102.31	0	0	-999	560	1	292.31	0 BUMPING	242	224
9/5/2018 14:06	102.38	0	0	-999	560	5	292.51	0 BUMPING	242	224
9/5/2018 14:06	102.81	0	0	-999	560	25	293.76	0 BUMPING	242	224
9/5/2018 14:06	102.13	0	0	-999	560	94	292.26	0 BUMPING	242	224
9/5/2018 14:06	102.56	0	0	-999	560	78	292.53	0 BUMPING	242	224
9/5/2018 14:06	102.87	0	0	-999	560	1	293.93	0 BUMPING	242	224
9/5/2018 14:07	102.02	0	0	-999	560	2	291.61	0 BUMPING	242	224
9/5/2018 14:07	102.92	0	0	-999	560	13	294.07	0 BUMPING	242	224
9/5/2018 14:07	102.29	0	0	-999	560	79	292.28	0 BUMPING	242	224
9/5/2018 14:07	102.93	0	0	-999	560	94	293.01	0 BUMPING	242	224
9/5/2018 14:07	102.65	0	0	-999	560	49	293.28	0 BUMPING	242	224
9/5/2018 14:07	102.01	0	0	-999	560	1	291.45	0 BUMPING	242	224
9/5/2018 14:07	102.61	0	0	-999	560	5	293.18	0 BUMPING	242	224
9/5/2018 14:07	102.45	0	0	-999	560	25	292.72	0 BUMPING	242	224
9/5/2018 14:07	102.08	0	0	-999	560	94	291.16	0 BUMPING	242	224
9/5/2018 14:07	102.61	0	0	-999	560	76	293.18	0 BUMPING	242	224
9/5/2018 14:07	101.98	0	0	-999	560	1	290.74	0 BUMPING	242	224
9/5/2018 14:07	102.01	0	0	-999	560	2	291.25	0 BUMPING	242	224
9/5/2018 14:07	101.87	0	0	-999	560	13	291.08	0 BUMPING	242	224
9/5/2018 14:07	102.51	0	0	-999	560	78	292.62	0 BUMPING	242	224
9/5/2018 14:07	101.77	0	0	-999	560	93	290.75	0 BUMPING	242	224
9/5/2018 14:07	102.06	0	0	-999	560	49	291.61	0 BUMPING	242	224
9/5/2018 14:07	102.33	0	0	-999	560	1	292.38	0 BUMPING	242	224
9/5/2018 14:07	102.66	0	0	-999	560	6	293.56	0 BUMPING	242	224
9/5/2018 14:07	102.74	0	0	-999	560	30	293.56	0 BUMPING	242	224
9/5/2018 14:07	102.16	0	0	-999	560	93	291.9	0 BUMPING	242	224
9/5/2018 14:07	102.74	0	0	-999	560	74	293.27	0 BUMPING	242	224
9/5/2018 14:07	102.14	0	0	-999	560	1	291.13	0 BUMPING	242	224
9/5/2018 14:07	102.7	0	0	-999	560	3	293.44	0 BUMPING	242	224
9/5/2018 14:07	102.19	0	0	-999	560	13	291.97	0 BUMPING	242	224
9/5/2018 14:07	102.49	0	0	-999	560	94	292.84	0 BUMPING	242	224
9/5/2018 14:07	102.45	0	0	-999	560	91	292.72	0 BUMPING	242	224
9/5/2018 14:07	101.79	0	0	-999	560	48	290.84	0 BUMPING	242	224
9/5/2018 14:07	102.28	0	0	-999	560	1	291.61	0 BUMPING	242	224
9/5/2018 14:07	102.66	0	0	-999	560	6	293.34	0 BUMPING	242	224
9/5/2018 14:07	102.2	0	0	-999	560	30	292.02	0 BUMPING	242	224
9/5/2018 14:07	102.8	0	0	-999	560	90	294.14	0 BUMPING	242	224
9/5/2018 14:07	102.26	0	0	-999	560	72	292.19	0 BUMPING	242	224
9/5/2018 14:07	103.16	0	0	-999	560	1	294.74	0 BUMPING	242	224
9/5/2018 14:07	102.02	0	0	-999	560	2	291.51	0 BUMPING	242	224
9/5/2018 14:07	103.16	0	0	-999	560	12	294.76	0 BUMPING	242	224
9/5/2018 14:07	102.95	0	0	-999	560	78	294.16	0 BUMPING	242	224
9/5/2018 14:07	101.74	0	0	-999	560	91	290.96	0 BUMPING	242	224
9/5/2018 14:07	101.43	0	0	-999	560	48	291.88	0 BUMPING	242	224
9/5/2018 14:07	102.41	0	0	-999	560	1	292.62	0 BUMPING	242	224
9/5/2018 14:07	102.17	0	0	-999	560	6	291.93	0 BUMPING	242	224
9/5/2018 14:07	102.95	0	0	-999	560	30	293.3	0 BUMPING	242	224
9/5/2018 14:07	102.16	0	0	-999	560	91	292.93	0 BUMPING	242	224
9/5/2018 14:07	102.89	0	0	-999	560	73	293.99	0 BUMPING	242	224
9/5/2018 14:07	102.31	0	0	-999	560	1	292.33	0 BUMPING	242	224
9/5/2018 14:07	102.83	0	0	-999	560	2	293.73	0 BUMPING	242	224
9/5/2018 14:07	102.5	0	0	-999	560	15	292.87	0 BUMPING	242	224
9/5/2018 14:07	102.1	0	0	-999	560	99	291.71	0 BUMPING	242	224
9/5/2018 14:07	102.92	0	0	-999	560	90	294.05	0 BUMPING	242	224
9/5/2018 14:07	101.38	0	0	-999	560	37	289.67	0 BUMPING	242	224
9/5/2018 14:07	102.77	0	0	-999	560	1	293.64	0 BUMPING	242	224
9/5/2018 14:07	102.87	0	0	-999	560	6	293.92	0 BUMPING	242	224
9/5/2018 14:07	102.15	0	0	-999	560	36	291.86	0 BUMPING	242	224

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9/5/2018 14:07	102.96	0	0	-999	560	73	294.17	0 BUMPING	242	224
9/5/2018 14:07	102.56	0	0	-999	560	1	292.05	0 BUMPING	242	224
9/5/2018 14:07	103.09	0	0	-999	560	3	294.55	0 BUMPING	242	224
9/5/2018 14:07	103.15	0	0	-999	560	15	294.72	0 BUMPING	242	224
9/5/2018 14:07	101.89	0	0	-999	560	100	291.57	0 BUMPING	242	224
9/5/2018 14:07	102.4	0	0	-999	560	89	292.58	0 BUMPING	242	224
9/5/2018 14:08	102.77	0	0	-999	560	37	293.64	0 BUMPING	242	224
9/5/2018 14:08	102.47	0	0	-999	560	1	292.77	0 BUMPING	242	224
9/5/2018 14:08	101.53	0	0	-999	560	6	290.96	0 BUMPING	242	224
9/5/2018 14:08	101.97	0	0	-999	560	36	291.35	0 BUMPING	242	224
9/5/2018 14:08	103.5	0	0	-999	560	90	295.73	0 BUMPING	242	224
9/5/2018 14:08	101.38	0	0	-999	560	73	289.66	0 BUMPING	242	224
9/5/2018 14:08	103.49	0	0	-999	560	1	296.21	0 BUMPING	242	224
9/5/2018 14:08	103.01	0	0	-999	560	3	294.33	0 BUMPING	242	224
9/5/2018 14:08	102.04	0	0	-999	560	14	291.56	0 BUMPING	242	224
9/5/2018 14:08	103.15	0	0	-999	560	99	294.59	0 BUMPING	242	224
9/5/2018 14:08	101.4	0	0	-999	560	87	289.73	0 BUMPING	242	224
9/5/2018 14:08	101.81	0	0	-999	560	36	290.91	0 BUMPING	242	224
9/5/2018 14:08	103.61	0	0	-999	560	1	295.97	0 BUMPING	242	224
9/5/2018 14:08	103.02	0	0	-999	560	7	294.36	0 BUMPING	242	224
9/5/2018 14:08	102.05	0	0	-999	560	36	291.57	0 BUMPING	242	224
9/5/2018 14:08	103.41	0	0	-999	560	91	294.52	0 BUMPING	242	224
9/5/2018 14:08	102.47	0	0	-999	560	69	292.77	0 BUMPING	242	224
9/5/2018 14:08	102.82	0	0	-999	560	1	293.78	0 BUMPING	242	224
9/5/2018 14:08	101.78	0	0	-999	560	3	291.64	0 BUMPING	242	224
9/5/2018 14:08	103.38	0	0	-999	560	14	295.89	0 BUMPING	242	224
9/5/2018 14:08	102.42	0	0	-999	560	99	292.65	0 BUMPING	242	224
9/5/2018 14:08	101.98	0	0	-999	560	88	291.39	0 BUMPING	242	224
9/5/2018 14:08	97.89	0	0	-999	560	35	290.55	0 BUMPING	242	224
9/5/2018 14:08	102.9	0	0	-999	560	1	294.02	0 BUMPING	242	224
9/5/2018 14:08	101.95	0	0	-999	560	7	291.3	0 BUMPING	242	224
9/5/2018 14:08	102.88	0	0	-999	560	36	293.64	0 BUMPING	242	224
9/5/2018 14:08	102.52	0	0	-999	560	90	292.93	0 BUMPING	242	224
9/5/2018 14:08	102.74	0	0	-999	560	70	293.56	0 BUMPING	242	224
9/5/2018 14:08	102.28	0	0	-999	560	1	293.28	0 BUMPING	242	224
9/5/2018 14:08	102.73	0	0	-999	560	3	293.66	0 BUMPING	242	224
9/5/2018 14:08	102.61	0	0	-999	560	17	293.18	0 BUMPING	242	224
9/5/2018 14:08	102.63	0	0	-999	560	99	293.23	0 BUMPING	242	224
9/5/2018 14:08	101.85	0	0	-999	560	89	291.54	0 BUMPING	242	224
9/5/2018 14:08	99.23	0	0	-999	560	20	283.53	0 BUMPING	242	224
9/5/2018 14:08	102.78	0	0	-999	560	1	293.68	0 BUMPING	242	224
9/5/2018 14:08	102.84	0	0	-999	560	7	293.51	0 BUMPING	242	224
9/5/2018 14:08	101.35	0	0	-999	560	45	289.57	0 BUMPING	242	224
9/5/2018 14:08	103.04	0	0	-999	560	92	294.41	0 BUMPING	242	224
9/5/2018 14:08	102.53	0	0	-999	560	70	292.96	0 BUMPING	242	224
9/5/2018 14:08	102.69	0	0	-999	560	1	293.92	0 BUMPING	242	224
9/5/2018 14:08	102.6	0	0	-999	560	3	293.15	0 BUMPING	242	224
9/5/2018 14:08	102.66	0	0	-999	560	17	293.32	0 BUMPING	242	224
9/5/2018 14:08	103.4	0	0	-999	560	99	295.51	0 BUMPING	242	224
9/5/2018 14:08	102.07	0	0	-999	560	87	291.62	0 BUMPING	242	224
9/5/2018 14:08	99.74	0	0	-999	560	19	284.97	0 BUMPING	242	224
9/5/2018 14:08	102.32	0	0	-999	560	1	292.34	0 BUMPING	242	224
9/5/2018 14:08	102.56	0	0	-999	560	7	293.66	0 BUMPING	242	224
9/5/2018 14:08	102.93	0	0	-999	560	46	294.09	0 BUMPING	242	224
9/5/2018 14:08	102.84	0	0	-999	560	92	293.83	0 BUMPING	242	224
9/5/2018 14:08	101.65	0	0	-999	560	70	290.44	0 BUMPING	242	224
9/5/2018 14:08	103.38	0	0	-999	560	1	295.37	0 BUMPING	242	224
9/5/2018 14:08	102.47	0	0	-999	560	3	292.79	0 BUMPING	242	224
9/5/2018 14:08	103.23	0	0	-999	560	17	294.76	0 BUMPING	242	224
9/5/2018 14:08	103.48	0	0	-999	560	101	295.66	0 BUMPING	242	224
9/5/2018 14:08	102.97	0	0	-999	560	88	294.21	0 BUMPING	242	224
9/5/2018 14:08	102.19	0	0	-999	560	17	280.54	0 BUMPING	242	224
9/5/2018 14:08	102.81	0	0	-999	560	2	293.75	0 BUMPING	242	224
9/5/2018 14:08	102.55	0	0	-999	560	9	293.01	0 BUMPING	242	224

9/5/2018 14:08	102.71	0	0	-999	560	47	293.46	0 BUMPING	242	224
9/5/2018 14:08	102.39	0	0	-999	560	93	292.26	0 BUMPING	242	224
9/5/2018 14:09	102.39	0	0	-999	560	74	292.57	0 BUMPING	242	224
9/5/2018 14:09	102.28	0	0	-999	560	1	292.22	0 BUMPING	242	224
9/5/2018 14:09	102.5	0	0	-999	560	3	294.16	0 BUMPING	242	224
9/5/2018 14:09	102.14	0	0	-999	560	20	291.85	0 BUMPING	242	224
9/5/2018 14:09	102.74	0	0	-999	560	102	293.54	0 BUMPING	242	224
9/5/2018 14:09	102.09	0	0	-999	560	89	291.18	0 BUMPING	242	224
9/5/2018 14:09	102.92	0	0	-999	560	17	282.71	0 BUMPING	242	224
9/5/2018 14:09	102.11	0	0	-999	560	1	291.76	0 BUMPING	242	224
9/5/2018 14:09	103.05	0	0	-999	560	9	294.43	0 BUMPING	242	224
9/5/2018 14:09	102.72	0	0	-999	560	49	293.42	0 BUMPING	242	224
9/5/2018 14:09	102.11	0	0	-999	560	96	291.76	0 BUMPING	242	224
9/5/2018 14:09	102.36	0	0	-999	560	73	292.46	0 BUMPING	242	224
9/5/2018 14:09	102.4	0	0	-999	560	1	292.58	0 BUMPING	242	224
9/5/2018 14:09	102.68	0	0	-999	560	4	293.37	0 BUMPING	242	224
9/5/2018 14:09	102.48	0	0	-999	560	21	292.82	0 BUMPING	242	224
9/5/2018 14:09	103.21	0	0	-999	560	104	294.89	0 BUMPING	242	224
9/5/2018 14:09	102.36	0	0	-999	560	89	292.99	0 BUMPING	242	224
9/5/2018 14:09	102.5	0	0	-999	560	1	292.86	0 BUMPING	242	224
9/5/2018 14:09	102.54	0	0	-999	560	2	292.98	0 BUMPING	242	224
9/5/2018 14:09	102.62	0	0	-999	560	9	292.81	0 BUMPING	242	224
9/5/2018 14:09	102.75	0	0	-999	560	59	293.59	0 BUMPING	242	224
9/5/2018 14:09	102.35	0	0	-999	560	97	292.43	0 BUMPING	242	224
9/5/2018 14:09	103.28	0	0	-999	560	74	295.1	0 BUMPING	242	224
9/5/2018 14:09	102.75	0	0	-999	560	1	293.59	0 BUMPING	242	224
9/5/2018 14:09	102.81	0	0	-999	560	4	293.75	0 BUMPING	242	224
9/5/2018 14:09	103.31	0	0	-999	560	22	295.17	0 BUMPING	242	224
9/5/2018 14:09	102.09	0	0	-999	560	106	292.22	0 BUMPING	242	224
9/5/2018 14:09	103.11	0	0	-999	560	89	294.62	0 BUMPING	242	224
9/5/2018 14:09	102.56	0	0	-999	560	1	293.03	0 BUMPING	242	224
9/5/2018 14:09	102.72	0	0	-999	560	1	292.84	0 BUMPING	242	224
9/5/2018 14:09	101.87	0	0	-999	560	11	291.06	0 BUMPING	242	224
9/5/2018 14:09	102.48	0	0	-999	560	62	292.82	0 BUMPING	242	224
9/5/2018 14:09	102.52	0	0	-999	560	106	292.93	0 BUMPING	242	224
9/5/2018 14:09	102.77	0	0	-999	560	74	292.94	0 BUMPING	242	224
9/5/2018 14:09	102.41	0	0	-999	560	1	292.62	0 BUMPING	242	224
9/5/2018 14:09	102.32	0	0	-999	560	4	292.34	0 BUMPING	242	224
9/5/2018 14:09	103.05	0	0	-999	560	24	293.68	0 BUMPING	242	224
9/5/2018 14:09	102.16	0	0	-999	560	106	292.02	0 BUMPING	242	224
9/5/2018 14:09	102.8	0	0	-999	560	89	293.71	0 BUMPING	242	224
9/5/2018 14:09	102.63	0	0	-999	560	1	293.23	0 BUMPING	242	224
9/5/2018 14:09	102.92	0	0	-999	560	2	294.05	0 BUMPING	242	224
9/5/2018 14:09	102.6	0	0	-999	560	11	293.15	0 BUMPING	242	224
9/5/2018 14:09	102.4	0	0	-999	560	67	292.58	0 BUMPING	242	224
9/5/2018 14:09	102.1	0	0	-999	560	111	291.37	0 BUMPING	242	224
9/5/2018 14:09	102.48	0	0	-999	560	68	292.82	0 BUMPING	242	224
9/5/2018 14:09	103.04	0	0	-999	560	1	294.41	0 BUMPING	242	224
9/5/2018 14:09	102.1	0	0	-999	560	5	292.26	0 BUMPING	242	224
9/5/2018 14:09	102.9	0	0	-999	560	30	294	0 BUMPING	242	224
9/5/2018 14:09	102.32	0	0	-999	560	108	292.36	0 BUMPING	242	224
9/5/2018 14:09	102.25	0	0	-999	560	91	292.14	0 BUMPING	242	224
9/5/2018 14:09	102.82	0	0	-999	560	1	293.2	0 BUMPING	242	224
9/5/2018 14:09	102.46	0	0	-999	560	2	292.75	0 BUMPING	242	224
9/5/2018 14:09	102.51	0	0	-999	560	13	292.91	0 BUMPING	242	224
9/5/2018 14:09	103.02	0	0	-999	560	70	294.74	0 BUMPING	242	224
9/5/2018 14:09	102.83	0	0	-999	560	110	293.8	0 BUMPING	242	224
9/5/2018 14:09	100.24	0	0	-999	560	66	286.42	0 BUMPING	242	224
9/5/2018 14:09	102.22	0	0	-999	560	1	292.16	0 BUMPING	242	224
9/5/2018 14:09	103.23	0	0	-999	560	7	294.94	0 BUMPING	242	224
9/5/2018 14:09	102.29	0	0	-999	560	34	292.28	0 BUMPING	242	224
9/5/2018 14:10	102.99	0	0	-999	560	112	294.28	0 BUMPING	242	224
9/5/2018 14:10	102.19	0	0	-999	560	98	292.53	0 BUMPING	242	224
9/5/2018 14:10	103.2	0	0	-999	560	1	294.88	0 BUMPING	242	224
9/5/2018 14:10	101.96	0	0	-999	560	4	291.32	0 BUMPING	242	224

9/5/2018 14:10	101.97	0	0	-999	560	16	290.91	0 BUMPING	242	224
9/5/2018 14:10	102.32	0	0	-999	560	90	292.36	0 BUMPING	242	224
9/5/2018 14:10	102.82	0	0	-999	560	116	293.78	0 BUMPING	242	224
9/5/2018 14:10	102.05	0	0	-999	560	67	292.17	0 BUMPING	242	224
9/5/2018 14:10	102.52	0	0	-999	560	2	292.93	0 BUMPING	242	224
9/5/2018 14:10	102.22	0	0	-999	560	10	292.05	0 BUMPING	242	224
9/5/2018 14:10	102.17	0	0	-999	560	41	291.92	0 BUMPING	242	224
9/5/2018 14:10	102.96	0	0	-999	560	123	294.19	0 BUMPING	242	224
9/5/2018 14:10	102.83	0	0	-999	560	101	293.8	0 BUMPING	242	224
9/5/2018 14:10	101.91	0	0	-999	560	2	291.18	0 BUMPING	242	224
9/5/2018 14:10	103.07	0	0	-999	560	6	293.87	0 BUMPING	242	224
9/5/2018 14:10	102.02	0	0	-999	560	26	291.51	0 BUMPING	242	224
9/5/2018 14:10	102.86	0	0	-999	560	88	293.63	0 BUMPING	242	224
9/5/2018 14:10	102.11	0	0	-999	560	121	291.76	0 BUMPING	242	224
9/5/2018 14:10	102.82	0	0	-999	560	69	293.78	0 BUMPING	242	224
9/5/2018 14:10	102.98	0	0	-999	560	4	294.23	0 BUMPING	242	224
9/5/2018 14:10	102.53	0	0	-999	560	19	292.94	0 BUMPING	242	224
9/5/2018 14:10	102.1	0	0	-999	560	63	291.71	0 BUMPING	242	224
9/5/2018 14:10	103.17	0	0	-999	560	135	294.77	0 BUMPING	242	224
9/5/2018 14:10	102.39	0	0	-999	560	102	292.55	0 BUMPING	242	224
9/5/2018 14:10	102.5	0	0	-999	560	5	292.22	0 BUMPING	242	224
9/5/2018 14:10	102.63	0	0	-999	560	18	293.25	0 BUMPING	242	224
9/5/2018 14:10	102.6	0	0	-999	560	66	293.16	0 BUMPING	242	224
9/5/2018 14:10	102.96	0	0	-999	560	144	294.17	0 BUMPING	242	224
9/5/2018 14:10	102.32	0	0	-999	560	106	292.77	0 BUMPING	242	224
9/5/2018 14:10	102.77	0.02	0	-999	560	10	293.63	0 BUMPING	242	224
9/5/2018 14:10	102.18	0	0	-999	560	40	291.95	0 BUMPING	242	224
9/5/2018 14:10	101.86	0	0	-999	560	132	291.03	0 BUMPING	242	224
9/5/2018 14:10	102.35	0.06	0	-999	560	102	292.43	0 BUMPING	242	224
9/5/2018 14:10	102.94	0	0	-999	560	40	294.12	0 BUMPING	242	224
9/5/2018 14:10	102.01	0	0	-999	560	78	291.28	0 BUMPING	242	224
9/5/2018 14:10	102.05	0.05	0	-999	560	101	291.57	0 BUMPING	242	224
9/5/2018 14:10	102.13	0	0	-999	560	55	291.8	0 BUMPING	242	224
9/5/2018 14:10	102.45	0	0	-999	560	165	292.57	0 BUMPING	242	224
9/5/2018 14:10	102.38	0	0	-999	560	88	292.51	0 BUMPING	242	224
9/5/2018 14:10	98.81	0	0	-999	560	159	282.32	0 BUMPING	242	224
9/5/2018 14:10	99.84	0	0	-999	560	99	285.26	0 BUMPING	242	224
9/5/2018 14:10	104.88	0.14	1.3	265.2	560	48	287.35	0 RUNNING	242	224
9/5/2018 14:10	98.96	0	0	-999	560	160	282.76	0 BUMPING	242	224
9/5/2018 14:10	99.79	0	0	-999	560	191	285.12	0 BUMPING	242	224
9/5/2018 14:10	109.24	0.66	5.3	280.5	560	422	299.29	0 RUNNING	242	224
9/5/2018 14:10	114.08	0.63	5.3	280.3	560	445	299.99	0 RUNNING	242	224
9/5/2018 14:10	114.51	0.59	5.2	279.5	560	457	289.47	0 RUNNING	242	224
9/5/2018 14:10	118.71	0.55	4.9	278.5	560	467	288.9	0 RUNNING	242	224
9/5/2018 14:10	123.7	0.51	4.7	277.7	560	481	290.26	0 RUNNING	242	224
9/5/2018 14:10	128.85	0.47	4.5	276.8	560	503	291.86	0 RUNNING	242	224
9/5/2018 14:10	128.03	0.43	4.2	275.7	560	500	280.28	0 RUNNING	242	224
9/5/2018 14:10	135.07	0.38	3.9	274.6	560	529	293.54	0 RUNNING	242	224
9/5/2018 14:10	134.52	0.32	3.4	272.9	560	526	290.44	0 RUNNING	242	224
9/5/2018 14:10	134.41	0.3	3.2	272	560	524	286.03	0 RUNNING	242	224
9/5/2018 14:10	134.47	0.26	2.9	271	560	526	283.55	0 RUNNING	242	224
9/5/2018 14:10	134.01	0.24	2.6	269.9	560	523	278.21	0 RUNNING	242	224
9/5/2018 14:10	134.49	0.21	2.3	268.7	560	525	274.29	0 RUNNING	242	224
9/5/2018 14:10	134.89	0.2	2.2	268.4	560	519	279.68	0 RUNNING	242	224
9/5/2018 14:10	134.56	0.19	2.1	267.9	560	513	276.21	0 RUNNING	242	224
9/5/2018 14:11	135.31	0.18	2	267.7	560	495	281.91	0 RUNNING	242	224
9/5/2018 14:11	133.93	0.18	2	267.8	560	471	275.57	0 RUNNING	242	224
9/5/2018 14:11	135.12	0.18	2	267.8	560	451	280.13	0 RUNNING	242	224
9/5/2018 14:11	134.45	0.19	2.1	267.9	560	433	275.63	0 RUNNING	242	224
9/5/2018 14:11	134.91	0.17	1.9	267.4	560	419	278.84	0 RUNNING	242	224
9/5/2018 14:11	134.42	0.18	2.1	267.8	560	409	277.49	0 RUNNING	242	224
9/5/2018 14:11	134.4	0.18	2	267.7	560	402	278.07	0 RUNNING	242	224
9/5/2018 14:11	135.41	0.18	2	266.1	560	398	278.59	0 RUNNING	242	224
9/5/2018 14:11	134.43	0.17	2	266.1	560	395	276.36	0 RUNNING	242	224
9/5/2018 14:11	134.95	0.18	2	266.3	560	392	278	0 RUNNING	242	224

9/5/2018 14:11	135.15	0.17	2	266	560	392	278.69	0 RUNNING	242	224
9/5/2018 14:11	134.79	0.17	2	266.1	560	389	277.53	0 RUNNING	242	224
9/5/2018 14:11	135.38	0.17	2	266	560	388	280.74	0 RUNNING	242	224
9/5/2018 14:11	135.11	0.17	1.9	265.8	560	385	279.77	0 RUNNING	242	224
9/5/2018 14:11	134.22	0.18	2	266.4	560	384	278.81	0 RUNNING	242	224
9/5/2018 14:11	135.1	0.18	2	266.2	560	385	277.11	0 RUNNING	242	224
9/5/2018 14:11	134.93	0.18	2	266.4	560	385	278.95	0 RUNNING	242	224
9/5/2018 14:11	133.86	0.17	2	267.5	560	382	276.69	0 RUNNING	242	224
9/5/2018 14:11	134.75	0.18	2	267.7	560	383	278.48	0 RUNNING	242	224
9/5/2018 14:11	135.04	0.17	1.9	267.4	560	386	278.86	0 RUNNING	242	224
9/5/2018 14:11	134.47	0.17	1.9	267.3	560	387	277.9	0 RUNNING	242	224
9/5/2018 14:11	134.92	0.17	2	267.6	560	389	279.12	0 RUNNING	242	224
9/5/2018 14:11	135.23	0.17	2	267.5	560	391	279.92	0 RUNNING	242	224
9/5/2018 14:11	135.04	0.18	2	267.7	560	393	277.7	0 RUNNING	242	224
9/5/2018 14:11	134	0.18	2	267.6	560	393	277.41	0 RUNNING	242	224
9/5/2018 14:11	134.47	0.18	2	267.7	560	394	276.72	0 RUNNING	242	224
9/5/2018 14:11	135.53	0.18	2.1	268	560	396	280.35	0 RUNNING	242	224
9/5/2018 14:11	134.39	0.19	2.1	266.6	560	394	276.76	0 RUNNING	242	224
9/5/2018 14:11	135.5	0.18	2.1	266.5	560	397	278.83	0 RUNNING	242	224
9/5/2018 14:11	134.19	0.18	2.1	266.5	560	398	277.9	0 RUNNING	242	224
9/5/2018 14:11	135.15	0.19	2.1	266.7	560	400	278.14	0 RUNNING	242	224
9/5/2018 14:11	135.46	0.18	2.1	266.6	560	407	279.68	0 RUNNING	242	224
9/5/2018 14:11	134.96	0.19	2.1	266.5	560	408	279.15	0 RUNNING	242	224
9/5/2018 14:11	135.76	0.18	2.1	266.5	560	416	277.97	0 RUNNING	242	224
9/5/2018 14:11	135.32	0.18	2.1	266.5	560	424	279.37	0 RUNNING	242	224
9/5/2018 14:11	134.89	0.18	2	266.3	560	432	278.65	0 RUNNING	242	224
9/5/2018 14:11	135.3	0.18	2	266.3	560	442	278.65	0 RUNNING	242	224
9/5/2018 14:11	134.58	0.19	2.1	266.7	560	445	277.46	0 RUNNING	242	224
9/5/2018 14:11	134.82	0.19	2.2	266.8	560	443	279.3	0 RUNNING	242	224
9/5/2018 14:11	134.56	0.18	2.1	266.5	560	433	276.19	0 RUNNING	242	224
9/5/2018 14:11	134.7	0.18	2.1	266.5	560	423	279.66	0 RUNNING	242	224
9/5/2018 14:11	134.31	0.18	2	266.3	560	410	277.08	0 RUNNING	242	224
9/5/2018 14:11	134.61	0.17	2	266	560	403	277.73	0 RUNNING	242	224
9/5/2018 14:11	134.73	0.18	2.1	266.4	560	399	276.53	0 RUNNING	242	224
9/5/2018 14:11	134.87	0.18	2.1	266.4	560	393	278.62	0 RUNNING	242	224
9/5/2018 14:11	134.53	0.18	2	266.3	560	389	278.86	0 RUNNING	242	224
9/5/2018 14:11	135.31	0.18	2.1	266.5	560	388	279.37	0 RUNNING	242	224
9/5/2018 14:11	134.24	0.18	2.1	266.5	560	384	278.26	0 RUNNING	242	224
9/5/2018 14:11	134.28	0.18	2	266.3	560	382	276.65	0 RUNNING	242	224
9/5/2018 14:11	135.32	0.18	2.1	266.6	560	377	281.51	0 RUNNING	242	224
9/5/2018 14:11	134.73	0.18	2.1	266.4	560	375	275.83	0 RUNNING	242	224
9/5/2018 14:11	134.58	0.18	2	266.3	560	371	277.97	0 RUNNING	242	224
9/5/2018 14:11	134.65	0.18	2.1	266.4	560	368	276.86	0 RUNNING	242	224
9/5/2018 14:11	134.61	0.18	2.1	266.5	560	367	277.87	0 RUNNING	242	224
9/5/2018 14:11	135.32	0.18	2.1	266.4	560	365	279.49	0 RUNNING	242	224
9/5/2018 14:11	134.49	0.17	2	266.1	560	366	277.59	0 RUNNING	242	224
9/5/2018 14:11	135.05	0.17	2	266.2	560	367	278.14	0 RUNNING	242	224
9/5/2018 14:11	134.81	0.17	1.9	265.9	560	368	278.33	0 RUNNING	242	224
9/5/2018 14:11	134.75	0.18	2	266.3	560	369	278.31	0 RUNNING	242	224
9/5/2018 14:12	135.23	0.17	1.9	265.8	560	370	277.49	0 RUNNING	242	224
9/5/2018 14:12	134.96	0.18	2.1	266.5	560	369	278.96	0 RUNNING	242	224
9/5/2018 14:12	134.49	0.18	2.1	266.6	560	370	276.17	0 RUNNING	242	224
9/5/2018 14:12	134.89	0.17	2	266.2	560	371	278.41	0 RUNNING	242	224
9/5/2018 14:12	134.69	0.17	2	266.1	560	369	275.56	0 RUNNING	242	224
9/5/2018 14:12	134.54	0.17	2	266.2	560	369	278.55	0 RUNNING	242	224
9/5/2018 14:12	134.35	0.17	1.9	266	560	369	276.62	0 RUNNING	242	224
9/5/2018 14:12	134.66	0.17	2	266.3	560	368	279.12	0 RUNNING	242	224
9/5/2018 14:12	134.62	0.18	2	266.3	560	370	274.84	0 RUNNING	242	224
9/5/2018 14:12	135.1	0.17	1.9	265.8	560	372	278.31	0 RUNNING	242	224
9/5/2018 14:12	133.91	0.18	2.1	266.5	560	375	275.37	0 RUNNING	242	224
9/5/2018 14:12	135.39	0.18	2	266.3	560	376	280.84	0 RUNNING	242	224
9/5/2018 14:12	134.49	0.18	2.1	266.6	560	378	274.86	0 RUNNING	242	224
9/5/2018 14:12	135.15	0.17	1.9	265.9	560	380	280.57	0 RUNNING	242	224
9/5/2018 14:12	135.61	0.17	2	266.2	560	383	277.01	0 RUNNING	242	224
9/5/2018 14:12	134.71	0.18	2	266.2	560	382	281.43	0 RUNNING	242	224

9/5/2018 14:12	134.78	0.18	2	266.3	560	382	275.3	0 RUNNING	242	224
9/5/2018 14:12	134.59	0.19	2.2	266.8	560	382	279.9	0 RUNNING	242	224
9/5/2018 14:12	134.5	0.18	2.1	266.5	560	382	276.31	0 RUNNING	242	224
9/5/2018 14:12	134.53	0.18	2.1	266.5	560	384	278.41	0 RUNNING	242	224
9/5/2018 14:12	134.24	0.18	2.1	266.6	560	384	276.45	0 RUNNING	242	224
9/5/2018 14:12	134.58	0.19	2.1	266.7	560	390	276.81	0 RUNNING	242	224
9/5/2018 14:12	134.77	0.18	2.1	266.5	560	391	277.71	0 RUNNING	242	224
9/5/2018 14:12	134.6	0.17	1.9	266	560	396	276.62	0 RUNNING	242	224
9/5/2018 14:12	134.96	0.18	2	266.2	560	399	280.4	0 RUNNING	242	224
9/5/2018 14:12	134.54	0.19	2.1	266.7	560	400	277.1	0 RUNNING	242	224
9/5/2018 14:12	134.63	0.18	2	266.4	560	402	279.1	0 RUNNING	242	224
9/5/2018 14:12	135.18	0.18	2.1	266.6	560	403	279.07	0 RUNNING	242	224
9/5/2018 14:12	135.55	0.19	2.1	266.6	560	403	278.95	0 RUNNING	242	224
9/5/2018 14:12	134.66	0.18	2	266.2	560	401	278.12	0 RUNNING	242	224
9/5/2018 14:12	134.85	0.19	2.1	266.7	560	403	279.85	0 RUNNING	242	224
9/5/2018 14:12	135.04	0.18	2.1	266.5	560	404	277.37	0 RUNNING	242	224
9/5/2018 14:12	134.71	0.18	2.1	266.5	560	407	277.7	0 RUNNING	242	224
9/5/2018 14:12	134.67	0.18	2.1	266.6	560	408	279.39	0 RUNNING	242	224
9/5/2018 14:12	135.38	0.18	2	266.2	560	413	279.03	0 RUNNING	242	224
9/5/2018 14:12	134.4	0.18	2	266.1	560	415	278.89	0 RUNNING	242	224
9/5/2018 14:12	135.24	0.18	2	266.3	560	420	278.93	0 RUNNING	242	224
9/5/2018 14:12	135.05	0.18	2.1	266.4	560	423	277.97	0 RUNNING	242	224
9/5/2018 14:12	134.42	0.19	2.1	266.5	560	425	275.2	0 RUNNING	242	224
9/5/2018 14:12	134.97	0.18	2.1	266.5	560	424	280.61	0 RUNNING	242	224
9/5/2018 14:12	134.8	0.18	2.1	266.4	560	422	277.27	0 RUNNING	242	224
9/5/2018 14:12	135.29	0.18	2.1	266.5	560	421	279.12	0 RUNNING	242	224
9/5/2018 14:12	134.44	0.18	2	266.3	560	419	272.94	0 RUNNING	242	224
9/5/2018 14:12	132.59	0.19	2.2	266.8	560	418	274.6	0 RUNNING	242	224
9/5/2018 14:12	132.59	0.19	2.2	266.8	560	418	274.6	0 RUNNING	242	224
9/5/2018 14:12	133.9	0.19	2.2	266.9	560	419	275.75	0 RUNNING	242	224
9/5/2018 14:12	135.11	0.19	2.1	266.7	560	424	279.51	0 RUNNING	242	224
9/5/2018 14:12	134.39	0.18	2.1	266.5	560	429	278	0 RUNNING	242	224
9/5/2018 14:12	135.29	0.19	2.1	266.7	560	436	278.88	0 RUNNING	242	224
9/5/2018 14:12	134.6	0.19	2.2	266.9	560	439	279.97	0 RUNNING	242	224
9/5/2018 14:12	134.51	0.18	2	266.3	560	444	277.22	0 RUNNING	242	224
9/5/2018 14:12	134.37	0.19	2.1	266.6	560	446	278.5	0 RUNNING	242	224
9/5/2018 14:12	135.04	0.18	2.1	266.5	560	448	278.74	0 RUNNING	242	224
9/5/2018 14:12	134.34	0.19	2.1	266.5	560	448	278.83	0 RUNNING	242	224
9/5/2018 14:12	135.09	0.18	2.1	266.6	560	448	278.14	0 RUNNING	242	224
9/5/2018 14:12	134.77	0.18	2	266.4	560	448	279.92	0 RUNNING	242	224
9/5/2018 14:12	135.1	0.19	2.1	266.6	560	448	277.68	0 RUNNING	242	224
9/5/2018 14:12	134.83	0.19	2.1	266.5	560	449	279.84	0 RUNNING	242	224
9/5/2018 14:12	134.9	0.18	2	266.3	560	450	276.98	0 RUNNING	242	224
9/5/2018 14:13	134.69	0.19	2.1	266.7	560	452	278.23	0 RUNNING	242	224
9/5/2018 14:13	134.76	0.19	2.1	266.6	560	455	278.35	0 RUNNING	242	224
9/5/2018 14:13	134.28	0.18	2	266.4	560	457	277.54	0 RUNNING	242	224
9/5/2018 14:13	134.42	0.19	2.1	266.5	560	461	277.83	0 RUNNING	242	224
9/5/2018 14:13	134.71	0.18	2.1	266.5	560	463	278.48	0 RUNNING	242	224
9/5/2018 14:13	136.28	0.19	2.1	266.7	560	466	279.15	0 RUNNING	242	224
9/5/2018 14:13	134.74	0.19	2.1	266.8	560	465	279.24	0 RUNNING	242	224
9/5/2018 14:13	135.04	0.19	2.1	266.6	560	467	279.18	0 RUNNING	242	224
9/5/2018 14:13	134.92	0.19	2.1	266.7	560	467	278.35	0 RUNNING	242	224
9/5/2018 14:13	134.22	0.2	2.2	267	560	469	277.39	0 RUNNING	242	224
9/5/2018 14:13	135.29	0.18	2	266.4	560	472	279.07	0 RUNNING	242	224
9/5/2018 14:13	134.53	0.19	2.1	265.3	560	473	278.21	0 RUNNING	242	224
9/5/2018 14:13	134.94	0.19	2.1	265.3	560	477	277.17	0 RUNNING	242	224
9/5/2018 14:13	134.59	0.19	2.1	265.2	560	480	277.61	0 RUNNING	242	224
9/5/2018 14:13	135.01	0.18	2.1	265	560	485	279.68	0 RUNNING	242	224
9/5/2018 14:13	134.66	0.19	2.1	265.1	560	488	276.38	0 RUNNING	242	224
9/5/2018 14:13	134.83	0.2	2.2	265.5	560	492	278.95	0 RUNNING	242	224
9/5/2018 14:13	134.41	0.19	2.1	265.2	560	493	277.75	0 RUNNING	242	224
9/5/2018 14:13	134.61	0.19	2.1	265.2	560	494	277.61	0 RUNNING	242	224
9/5/2018 14:13	133.97	0.18	2	264.8	560	495	277.54	0 RUNNING	242	224
9/5/2018 14:13	134.95	0.19	2.2	265.5	560	495	277.2	0 RUNNING	242	224
9/5/2018 14:13	134.16	0.2	2.2	266.9	560	496	279.42	0 RUNNING	242	224

9/5/2018 14:13	134.79	0.19	2.2	266.9	560	497	278.88	0 RUNNING	242	224
9/5/2018 14:13	134.77	0.2	2.2	266.9	560	499	277.13	0 RUNNING	242	224
9/5/2018 14:13	134.68	0.19	2.1	266.7	560	501	279.41	0 RUNNING	242	224
9/5/2018 14:13	134.52	0.2	2.2	266.9	560	505	276.75	0 RUNNING	242	224
9/5/2018 14:13	135.14	0.19	2.1	266.7	560	509	278.93	0 RUNNING	242	224
9/5/2018 14:13	133.97	0.2	2.2	266.9	560	511	275.69	0 RUNNING	242	224
9/5/2018 14:13	135	0.2	2.2	266.9	560	513	280.4	0 RUNNING	242	224
9/5/2018 14:13	135.14	0.19	2.1	266.7	560	514	279.58	0 RUNNING	242	224
9/5/2018 14:13	134.19	0.2	2.2	267	560	514	278.04	0 RUNNING	242	224
9/5/2018 14:13	135.29	0.2	2.2	267.2	560	513	277.32	0 RUNNING	242	224
9/5/2018 14:13	134.92	0.2	2.2	267.2	560	513	281.87	0 RUNNING	242	224
9/5/2018 14:13	134.07	0.19	2.1	266.8	560	513	276.26	0 RUNNING	242	224
9/5/2018 14:13	135.04	0.2	2.1	266.8	560	513	280.07	0 RUNNING	242	224
9/5/2018 14:13	135.16	0.19	2.1	266.7	560	512	279.27	0 RUNNING	242	224
9/5/2018 14:13	135	0.2	2.2	267	560	515	278.18	0 RUNNING	242	224
9/5/2018 14:13	135.24	0.2	2.2	266.8	560	516	280.21	0 RUNNING	242	224
9/5/2018 14:13	134.44	0.2	2.2	267.1	560	518	277.17	0 RUNNING	242	224
9/5/2018 14:13	134.86	0.2	2.2	266.9	560	522	279.77	0 RUNNING	242	224
9/5/2018 14:13	134.69	0.2	2.3	267.3	560	524	276.96	0 RUNNING	242	224
9/5/2018 14:13	134.66	0.21	2.3	265.9	560	523	277.8	0 RUNNING	242	224
9/5/2018 14:13	135.02	0.21	2.3	265.9	560	523	279.1	0 RUNNING	242	224
9/5/2018 14:13	134.44	0.21	2.4	266.2	560	522	278.26	0 RUNNING	242	224
9/5/2018 14:13	134.34	0.21	2.4	266.1	560	520	277.82	0 RUNNING	242	224
9/5/2018 14:13	134.42	0.22	2.4	266.3	560	520	277.94	0 RUNNING	242	224
9/5/2018 14:13	132.97	0.23	2.5	266.7	560	510	272.79	0 RUNNING	242	224
9/5/2018 14:13	132.63	0.22	2.5	266.6	560	517	273.44	0 RUNNING	242	224
9/5/2018 14:13	134.5	0.23	2.5	266.8	560	520	276.82	0 RUNNING	242	224
9/5/2018 14:13	135.21	0.22	2.5	266.6	560	522	278.36	0 RUNNING	242	224
9/5/2018 14:13	134.1	0.22	2.4	266.2	560	524	278.07	0 RUNNING	242	224
9/5/2018 14:13	134.32	0.22	2.4	266.5	560	526	276.82	0 RUNNING	242	224
9/5/2018 14:13	134.69	0.23	2.6	266.9	560	526	277.76	0 RUNNING	242	224
9/5/2018 14:13	135.11	0.23	2.5	266.7	560	526	277.49	0 RUNNING	242	224
9/5/2018 14:13	134.85	0.23	2.5	266.8	560	527	276.43	0 RUNNING	242	224
9/5/2018 14:13	134.47	0.23	2.5	266.7	560	523	279.9	0 RUNNING	242	224
9/5/2018 14:13	135.06	0.23	2.5	266.8	560	523	278.69	0 RUNNING	242	224
9/5/2018 14:13	133.44	0.24	2.6	267	560	522	275.68	0 RUNNING	242	224
9/5/2018 14:13	134.93	0.24	2.6	267.1	560	521	278.07	0 RUNNING	242	224
9/5/2018 14:14	134.9	0.23	2.5	266.6	560	522	278.09	0 RUNNING	242	224
9/5/2018 14:14	135.15	0.24	2.6	267	560	523	278.19	0 RUNNING	242	224
9/5/2018 14:14	134.9	0.24	2.7	267.2	560	525	279.99	0 RUNNING	242	224
9/5/2018 14:14	134.76	0.24	2.7	267.3	560	528	280.02	0 RUNNING	242	224
9/5/2018 14:14	135.1	0.24	2.7	267.3	560	528	277.17	0 RUNNING	242	224
9/5/2018 14:14	134.07	0.25	2.8	267.6	560	529	278.21	0 RUNNING	242	224
9/5/2018 14:14	134.7	0.25	2.8	267.6	560	529	278.33	0 RUNNING	242	224
9/5/2018 14:14	134.58	0.25	2.7	267.6	560	528	277.06	0 RUNNING	242	224
9/5/2018 14:14	134.69	0.25	2.8	267.7	560	529	277.8	0 RUNNING	242	224
9/5/2018 14:14	135.18	0.25	2.7	267.5	560	529	280.64	0 RUNNING	242	224
9/5/2018 14:14	135.87	0.26	2.9	268	560	523	282.93	0 RUNNING	242	224
9/5/2018 14:14	135.1	0.27	2.8	267.9	560	510	277.44	0 RUNNING	242	224
9/5/2018 14:14	134.55	0.27	3	269.8	560	524	280.79	0 RUNNING	242	224
9/5/2018 14:14	134.57	0.27	3	269.7	560	524	279.13	0 RUNNING	242	224
9/5/2018 14:14	134.41	0.28	3	270	560	525	279.01	0 RUNNING	242	224
9/5/2018 14:14	135.05	0.28	3	270	560	526	279.42	0 RUNNING	242	224
9/5/2018 14:14	135.2	0.28	3	270	560	528	280.37	0 RUNNING	242	224
9/5/2018 14:14	134.65	0.27	3	269.8	560	530	277.53	0 RUNNING	242	224
9/5/2018 14:14	135.02	0.27	3	269.8	560	532	278.65	0 RUNNING	242	224
9/5/2018 14:14	134.34	0.28	3	270	560	532	277.99	0 RUNNING	242	224
9/5/2018 14:14	135.45	0.28	3.1	270.1	560	530	279.34	0 RUNNING	242	224
9/5/2018 14:14	134.87	0.28	3.1	270.2	560	527	278.09	0 RUNNING	242	224
9/5/2018 14:14	134.73	0.29	3.2	269	560	526	277.97	0 RUNNING	242	224
9/5/2018 14:14	134.92	0.29	3.1	268.9	560	527	278.35	0 RUNNING	242	224
9/5/2018 14:14	134.2	0.29	3.1	269	560	526	277.53	0 RUNNING	242	224
9/5/2018 14:14	134.86	0.29	3.2	269	560	526	278.57	0 RUNNING	242	224
9/5/2018 14:14	134.78	0.29	3.2	269	560	528	278.93	0 RUNNING	242	224
9/5/2018 14:14	134.57	0.3	3.3	269.4	560	528	275.71	0 RUNNING	242	224

9/5/2018 14:14	135.46	0.3	3.3	269.3	560	530	280.49	0 RUNNING	242	224
9/5/2018 14:14	134.43	0.31	3.3	269.5	560	532	277.47	0 RUNNING	242	224
9/5/2018 14:14	134.69	0.3	3.2	269.1	560	533	279.61	0 RUNNING	242	224
9/5/2018 14:14	134.4	0.31	3.3	269.6	560	532	276.36	0 RUNNING	242	224
9/5/2018 14:14	134.92	0.31	3.4	269.8	560	531	279.72	0 RUNNING	242	224
9/5/2018 14:14	135.01	0.32	3.4	270	560	531	277.9	0 RUNNING	242	224
9/5/2018 14:14	134.45	0.32	3.4	269.9	560	527	277.83	0 RUNNING	242	224
9/5/2018 14:14	135.09	0.32	3.5	270.1	560	527	279.61	0 RUNNING	242	224
9/5/2018 14:14	134.47	0.32	3.5	270.1	560	528	278.45	0 RUNNING	242	224
9/5/2018 14:14	134.96	0.33	3.5	270.3	560	526	279.13	0 RUNNING	242	224
9/5/2018 14:14	134.93	0.33	3.5	270.2	560	528	277.05	0 RUNNING	242	224
9/5/2018 14:14	134.33	0.34	3.6	270.6	560	529	279.29	0 RUNNING	242	224
9/5/2018 14:14	135.33	0.34	3.5	270.4	560	530	279.49	0 RUNNING	242	224
9/5/2018 14:14	134.59	0.33	3.5	270.2	560	534	278	0 RUNNING	242	224
9/5/2018 14:14	134.89	0.35	3.7	272.3	560	533	278.12	0 RUNNING	242	224
9/5/2018 14:14	134.73	0.35	3.7	272.2	560	534	279.68	0 RUNNING	242	224
9/5/2018 14:14	134.57	0.35	3.7	272.4	560	533	278.35	0 RUNNING	242	224
9/5/2018 14:14	134.52	0.35	3.7	272.5	560	531	278.43	0 RUNNING	242	224
9/5/2018 14:14	135.08	0.36	3.8	272.6	560	530	279.73	0 RUNNING	242	224
9/5/2018 14:14	134.62	0.36	3.8	272.7	560	529	279.72	0 RUNNING	242	224
9/5/2018 14:14	135.12	0.36	3.8	272.7	560	527	278.12	0 RUNNING	242	224
9/5/2018 14:14	133.97	0.36	3.8	272.7	560	527	278.57	0 RUNNING	242	224
9/5/2018 14:14	134.82	0.36	3.9	272.9	560	530	279.05	0 RUNNING	242	224
9/5/2018 14:14	134.75	0.37	3.9	273	560	529	278.23	0 RUNNING	242	224
9/5/2018 14:14	134.1	0.37	3.9	271.6	560	533	277.47	0 RUNNING	242	224
9/5/2018 14:14	135.03	0.38	4	271.7	560	532	278.95	0 RUNNING	242	224
9/5/2018 14:14	134.77	0.37	3.9	271.7	560	535	278.35	0 RUNNING	242	224
9/5/2018 14:14	135.15	0.38	4	271.9	560	534	279.25	0 RUNNING	242	224
9/5/2018 14:14	134.73	0.38	4	271.9	560	535	278.81	0 RUNNING	242	224
9/5/2018 14:14	134.43	0.38	4	272	560	532	277.73	0 RUNNING	242	224
9/5/2018 14:14	134.47	0.39	4.1	272.1	560	531	277.87	0 RUNNING	242	224
9/5/2018 14:14	134.77	0.39	4.1	272.2	560	530	278.57	0 RUNNING	242	224
9/5/2018 14:15	134.24	0.39	4.1	272.1	560	528	278.36	0 RUNNING	242	224
9/5/2018 14:15	134.59	0.39	4.1	272.3	560	528	278.98	0 RUNNING	242	224
9/5/2018 14:15	134.97	0.4	4.2	272.6	560	529	278.67	0 RUNNING	242	224
9/5/2018 14:15	134.81	0.4	4.1	272.4	560	531	280.04	0 RUNNING	242	224
9/5/2018 14:15	134.29	0.4	4.2	272.5	560	533	278.21	0 RUNNING	242	224
9/5/2018 14:15	134.98	0.4	4.3	272.7	560	534	279.56	0 RUNNING	242	224
9/5/2018 14:15	135.04	0.4	4.2	272.4	560	535	277.94	0 RUNNING	242	224
9/5/2018 14:15	134.85	0.4	4.2	272.6	560	536	279.46	0 RUNNING	242	224
9/5/2018 14:15	135.02	0.41	4.3	272.7	560	535	279.94	0 RUNNING	242	224
9/5/2018 14:15	134.28	0.42	4.4	273.2	560	532	277.11	0 RUNNING	242	224
9/5/2018 14:15	134.04	0.4	4.2	272.7	560	532	279.29	0 RUNNING	242	224
9/5/2018 14:15	135.33	0.41	4.3	273	560	530	280.31	0 RUNNING	242	224
9/5/2018 14:15	134.2	0.41	4.3	272.9	560	528	277.76	0 RUNNING	242	224
9/5/2018 14:15	134.94	0.41	4.3	272.9	560	530	280.67	0 RUNNING	242	224
9/5/2018 14:15	134.27	0.4	4.2	272.5	560	529	279.94	0 RUNNING	242	224
9/5/2018 14:15	134.94	0.39	4.1	272.2	560	529	278.41	0 RUNNING	242	224
9/5/2018 14:15	134.28	0.36	3.9	271.4	560	532	278.79	0 RUNNING	242	224
9/5/2018 14:15	135.43	0.35	3.7	271	560	532	279.17	0 RUNNING	242	224
9/5/2018 14:15	134.21	0.33	3.6	270.4	560	533	277.13	0 RUNNING	242	224
9/5/2018 14:15	135.66	0.33	3.5	270.3	560	532	280.13	0 RUNNING	242	224
9/5/2018 14:15	134.9	0.31	3.3	269.6	560	532	276.89	0 RUNNING	242	224
9/5/2018 14:15	134.41	0.3	3.3	269.4	560	529	277.82	0 RUNNING	242	224
9/5/2018 14:15	134.93	0.29	3.1	268.9	560	527	277.3	0 RUNNING	242	224
9/5/2018 14:15	134.31	0.27	3	268.4	560	526	276.38	0 RUNNING	242	224
9/5/2018 14:15	134.91	0.27	2.9	268.1	560	523	280.72	0 RUNNING	242	224
9/5/2018 14:15	134.55	0.26	2.9	268	560	522	277.66	0 RUNNING	242	224
9/5/2018 14:15	134.71	0.24	2.6	267.2	560	523	278.5	0 RUNNING	242	224
9/5/2018 14:15	134.25	0.23	2.6	266.8	560	523	275.68	0 RUNNING	242	224
9/5/2018 14:15	135.15	0.22	2.5	266.6	560	521	275.23	0 RUNNING	242	224
9/5/2018 14:15	134.49	0.22	2.4	266.5	560	523	283.02	0 RUNNING	242	224
9/5/2018 14:15	134.59	0.22	2.4	266.3	560	522	277.75	0 RUNNING	242	224
9/5/2018 14:15	134.87	0.22	2.4	266.4	560	521	279.56	0 RUNNING	242	224
9/5/2018 14:15	134.5	0.21	2.3	266	560	519	278.11	0 RUNNING	242	224

9/5/2018 14:15	135.11	0.21	2.3	266	560	514	278.53	0 RUNNING	242	224
9/5/2018 14:15	135	0.2	2.2	265.7	560	510	279.42	0 RUNNING	242	224
9/5/2018 14:15	134.22	0.21	2.3	266	560	504	276.91	0 RUNNING	242	224
9/5/2018 14:15	135.09	0.21	2.4	266.1	560	497	277.82	0 RUNNING	242	224
9/5/2018 14:15	134.28	0.21	2.4	266.1	560	492	277.92	0 RUNNING	242	224
9/5/2018 14:15	135.23	0.2	2.3	265.8	560	486	278.21	0 RUNNING	242	224
9/5/2018 14:15	134.82	0.2	2.3	265.8	560	482	276.69	0 RUNNING	242	224
9/5/2018 14:15	135.42	0.2	2.3	265.7	560	479	280.04	0 RUNNING	242	224
9/5/2018 14:15	135.01	0.2	2.2	265.7	560	476	279.92	0 RUNNING	242	224
9/5/2018 14:15	135.01	0.2	2.2	265.7	560	474	278.59	0 RUNNING	242	224
9/5/2018 14:15	135.69	0.19	2.2	266.8	560	474	278.59	0 RUNNING	242	224
9/5/2018 14:15	133.72	0.19	2.2	266.8	560	469	275.78	0 RUNNING	242	224
9/5/2018 14:15	134.68	0.19	2.1	266.8	560	466	277.75	0 RUNNING	242	224
9/5/2018 14:15	134.24	0.2	2.2	267	560	460	277.2	0 RUNNING	242	224
9/5/2018 14:15	134.33	0.2	2.3	267.3	560	456	276.26	0 RUNNING	242	224
9/5/2018 14:15	135.05	0.2	2.3	267.3	560	450	278.65	0 RUNNING	242	224
9/5/2018 14:15	134.17	0.2	2.2	267.1	560	444	277.06	0 RUNNING	242	224
9/5/2018 14:15	135.23	0.2	2.2	267	560	440	279.39	0 RUNNING	242	224
9/5/2018 14:15	134.33	0.2	2.2	267.1	560	437	275.39	0 RUNNING	242	224
9/5/2018 14:15	134.8	0.2	2.3	267.2	560	436	278.88	0 RUNNING	242	224
9/5/2018 14:15	134.81	0.19	2.1	265.3	560	433	280.01	0 RUNNING	242	224
9/5/2018 14:15	134.24	0.19	2.2	265.4	560	433	275.32	0 RUNNING	242	224
9/5/2018 14:15	134.23	0.19	2.2	265.6	560	432	277.03	0 RUNNING	242	224
9/5/2018 14:15	135.1	0.19	2.2	265.3	560	429	278.43	0 RUNNING	242	224
9/5/2018 14:15	134.99	0.19	2.1	265.3	560	426	277.53	0 RUNNING	242	224
9/5/2018 14:15	135	0.2	2.2	265.6	560	423	278.65	0 RUNNING	242	224
9/5/2018 14:16	135.11	0.19	2.2	265.5	560	419	279.18	0 RUNNING	242	224
9/5/2018 14:16	134.34	0.19	2.2	265.4	560	414	277.15	0 RUNNING	242	224
9/5/2018 14:16	135.36	0.2	2.3	266	560	411	277.32	0 RUNNING	242	224
9/5/2018 14:16	134.47	0.2	2.3	265.8	560	408	277.68	0 RUNNING	242	224
9/5/2018 14:16	134.49	0.2	2.3	267.3	560	407	277.39	0 RUNNING	242	224
9/5/2018 14:16	134.6	0.19	2.2	266.9	560	407	277.13	0 RUNNING	242	224
9/5/2018 14:16	134.91	0.19	2.2	267	560	407	278.14	0 RUNNING	242	224
9/5/2018 14:16	134.81	0.2	2.2	267.1	560	407	277.42	0 RUNNING	242	224
9/5/2018 14:16	135.15	0.2	2.2	267.1	560	408	277.49	0 RUNNING	242	224
9/5/2018 14:16	134.31	0.19	2.1	266.6	560	405	278.74	0 RUNNING	242	224
9/5/2018 14:16	134.82	0.19	2.2	267	560	405	277.35	0 RUNNING	242	224
9/5/2018 14:16	134.34	0.19	2.2	267.1	560	402	276.28	0 RUNNING	242	224
9/5/2018 14:16	134.93	0.19	2.2	266.8	560	399	278.09	0 RUNNING	242	224
9/5/2018 14:16	134.85	0.19	2.2	266.8	560	396	276.96	0 RUNNING	242	224
9/5/2018 14:16	134.82	0.19	2.2	266.8	560	393	279.12	0 RUNNING	242	224
9/5/2018 14:16	135.29	0.19	2.2	266.8	560	391	278.33	0 RUNNING	242	224
9/5/2018 14:16	134.71	0.19	2.1	266.7	560	392	275.45	0 RUNNING	242	224
9/5/2018 14:16	134.88	0.18	2.1	266.6	560	391	278.07	0 RUNNING	242	224
9/5/2018 14:16	135.02	0.19	2.2	267	560	391	276.76	0 RUNNING	242	224
9/5/2018 14:16	135.44	0.19	2.2	266.9	560	391	279.63	0 RUNNING	242	224
9/5/2018 14:16	133.9	0.19	2.2	266.8	560	392	276.52	0 RUNNING	242	224
9/5/2018 14:16	135.04	0.18	2.1	266.7	560	391	277.42	0 RUNNING	242	224
9/5/2018 14:16	134.79	0.19	2.2	266.8	560	390	279.63	0 RUNNING	242	224
9/5/2018 14:16	134.33	0.19	2.2	267.1	560	388	276.16	0 RUNNING	242	224
9/5/2018 14:16	134.6	0.19	2.2	267	560	387	276.87	0 RUNNING	242	224
9/5/2018 14:16	135.36	0.19	2.2	266.9	560	384	279.39	0 RUNNING	242	224
9/5/2018 14:16	134.51	0.18	2.1	266.7	560	383	276.6	0 RUNNING	242	224
9/5/2018 14:16	134.91	0.19	2.2	266.8	560	384	277.39	0 RUNNING	242	224
9/5/2018 14:16	135.25	0.19	2.3	267.1	560	381	279.61	0 RUNNING	242	224
9/5/2018 14:16	134.83	0.19	2.3	267.1	560	382	277.1	0 RUNNING	242	224
9/5/2018 14:16	134.45	0.19	2.2	267	560	383	276.14	0 RUNNING	242	224
9/5/2018 14:16	134.65	0.19	2.2	266.8	560	384	276.81	0 RUNNING	242	224
9/5/2018 14:16	134.43	0.19	2.2	266.8	560	385	276.31	0 RUNNING	242	224
9/5/2018 14:16	135.02	0.19	2.1	266.7	560	385	277.17	0 RUNNING	242	224
9/5/2018 14:16	134.4	0.19	2.2	266.8	560	384	276.09	0 RUNNING	242	224
9/5/2018 14:16	135.29	0.19	2.2	266.8	560	382	279.66	0 RUNNING	242	224
9/5/2018 14:16	135.14	0.19	2.2	266.8	560	379	279.12	0 RUNNING	242	224
9/5/2018 14:16	134.28	0.19	2.2	267	560	377	276.53	0 RUNNING	242	224
9/5/2018 14:16	135.28	0.19	2.3	267.1	560	376	278.26	0 RUNNING	242	224

9/5/2018 14:16	134.42	0.19	2.1	266.7	560	373	277.95	0 RUNNING	242	224
9/5/2018 14:16	134.34	0.19	2.2	266.8	560	371	277.39	0 RUNNING	242	224
9/5/2018 14:16	135.18	0.19	2.2	266.8	560	374	279.44	0 RUNNING	242	224
9/5/2018 14:16	135.46	0.19	2.1	266.7	560	372	280.3	0 RUNNING	242	224
9/5/2018 14:16	134.66	0.19	2.2	266.7	560	374	275.98	0 RUNNING	242	224
9/5/2018 14:16	134.75	0.19	2.2	265.5	560	377	277.78	0 RUNNING	242	224
9/5/2018 14:16	134.3	0.19	2.2	265.4	560	376	277.01	0 RUNNING	242	224
9/5/2018 14:16	135.21	0.19	2.2	265.5	560	376	276.87	0 RUNNING	242	224
9/5/2018 14:16	134.42	0.19	2.3	265.7	560	376	276.89	0 RUNNING	242	224
9/5/2018 14:16	135.03	0.19	2.2	265.6	560	374	277.75	0 RUNNING	242	224
9/5/2018 14:16	134.37	0.19	2.2	265.6	560	373	276.77	0 RUNNING	242	224
9/5/2018 14:16	135.24	0.19	2.2	265.6	560	371	277.97	0 RUNNING	242	224
9/5/2018 14:16	134.47	0.2	2.3	266	560	370	277.92	0 RUNNING	242	224
9/5/2018 14:16	135.18	0.18	2.1	265.2	560	370	276.76	0 RUNNING	242	224
9/5/2018 14:16	134.25	0.19	2.2	265.5	560	372	277.59	0 RUNNING	242	224
9/5/2018 14:16	134.11	0.19	2.2	267.1	560	372	276.87	0 RUNNING	242	224
9/5/2018 14:16	135.2	0.19	2.2	267.1	560	376	278.74	0 RUNNING	242	224
9/5/2018 14:16	134.53	0.2	2.3	267.2	560	378	275.63	0 RUNNING	242	224
9/5/2018 14:16	135	0.19	2.2	267.1	560	380	277.54	0 RUNNING	242	224
9/5/2018 14:16	134.57	0.18	2.1	266.6	560	380	278.11	0 RUNNING	242	224
9/5/2018 14:17	135.05	0.19	2.2	267	560	381	277.25	0 RUNNING	242	224
9/5/2018 14:17	134.37	0.19	2.2	266.7	560	380	277.94	0 RUNNING	242	224
9/5/2018 14:17	135.15	0.19	2.2	266.9	560	378	278.14	0 RUNNING	242	224
9/5/2018 14:17	134.24	0.19	2.2	266.8	560	377	275.83	0 RUNNING	242	224
9/5/2018 14:17	135.33	0.2	2.3	267.4	560	377	278.64	0 RUNNING	242	224
9/5/2018 14:17	134.5	0.19	2.3	267.2	560	376	277.05	0 RUNNING	242	224
9/5/2018 14:17	135.18	0.19	2.2	267.1	560	378	277.66	0 RUNNING	242	224
9/5/2018 14:17	134.51	0.18	2.1	266.6	560	379	277.44	0 RUNNING	242	224
9/5/2018 14:17	134.51	0.19	2.2	267	560	380	276.38	0 RUNNING	242	224
9/5/2018 14:17	134.43	0.19	2.2	267.1	560	380	278.93	0 RUNNING	242	224
9/5/2018 14:17	134.52	0.19	2.1	266.7	560	382	278.55	0 RUNNING	242	224
9/5/2018 14:17	135.09	0.19	2.2	267	560	384	277.34	0 RUNNING	242	224
9/5/2018 14:17	134.32	0.19	2.2	266.9	560	384	276.58	0 RUNNING	242	224
9/5/2018 14:17	135.19	0.19	2.3	267.1	560	382	277.51	0 RUNNING	242	224
9/5/2018 14:17	134.91	0.19	2.2	267	560	383	277.71	0 RUNNING	242	224
9/5/2018 14:17	134.6	0.2	2.3	265.8	560	382	276.94	0 RUNNING	242	224
9/5/2018 14:17	134.41	0.19	2.2	265.4	560	381	278.43	0 RUNNING	242	224
9/5/2018 14:17	135.27	0.19	2.2	265.5	560	382	277.99	0 RUNNING	242	224
9/5/2018 14:17	134.55	0.19	2.2	265.4	560	383	277.17	0 RUNNING	242	224
9/5/2018 14:17	134.97	0.19	2.2	265.4	560	384	276.62	0 RUNNING	242	224
9/5/2018 14:17	135.05	0.19	2.1	265.3	560	386	278.23	0 RUNNING	242	224
9/5/2018 14:17	134.53	0.19	2.2	265.3	560	386	277.66	0 RUNNING	242	224
9/5/2018 14:17	134.25	0.19	2.2	265.4	560	389	276.24	0 RUNNING	242	224
9/5/2018 14:17	135.09	0.19	2.2	265.4	560	389	278.3	0 RUNNING	242	224
9/5/2018 14:17	134.75	0.18	2.1	265.2	560	390	277.78	0 RUNNING	242	224
9/5/2018 14:17	134.83	0.19	2.1	265.3	560	392	276.64	0 RUNNING	242	224
9/5/2018 14:17	134.22	0.19	2.2	265.5	560	389	277.8	0 RUNNING	242	224
9/5/2018 14:17	135.34	0.19	2.2	265.6	560	390	279.49	0 RUNNING	242	224
9/5/2018 14:17	134.45	0.19	2.2	265.6	560	389	275.71	0 RUNNING	242	224
9/5/2018 14:17	135.27	0.19	2.2	265.6	560	390	280.55	0 RUNNING	242	224
9/5/2018 14:17	134.41	0.19	2.2	265.5	560	390	275.28	0 RUNNING	242	224
9/5/2018 14:17	134.31	0.18	2.1	265.2	560	391	279.8	0 RUNNING	242	224
9/5/2018 14:17	135.36	0.19	2.2	265.6	560	394	278.36	0 RUNNING	242	224
9/5/2018 14:17	134.17	0.2	2.3	265.7	560	396	276.74	0 RUNNING	242	224
9/5/2018 14:17	134.63	0.19	2.3	265.7	560	397	278.12	0 RUNNING	242	224
9/5/2018 14:17	134.51	0.2	2.3	266	560	400	275.27	0 RUNNING	242	224
9/5/2018 14:17	134.57	0.2	2.3	267.3	560	399	279.53	0 RUNNING	242	224
9/5/2018 14:17	134.56	0.2	2.3	267.3	560	399	276.82	0 RUNNING	242	224
9/5/2018 14:17	135.31	0.2	2.3	267.2	560	399	277.92	0 RUNNING	242	224
9/5/2018 14:17	134.45	0.19	2.2	267	560	398	276.38	0 RUNNING	242	224
9/5/2018 14:17	134.98	0.2	2.3	267.3	560	397	277.46	0 RUNNING	242	224
9/5/2018 14:17	134.69	0.2	2.3	267.3	560	397	276.33	0 RUNNING	242	224
9/5/2018 14:17	134.76	0.21	2.4	267.8	560	398	278	0 RUNNING	242	224
9/5/2018 14:17	134.45	0.2	2.3	267.4	560	398	278.18	0 RUNNING	242	224
9/5/2018 14:17	134.3	0.2	2.4	267.5	560	401	277.17	0 RUNNING	242	224

9/5/2018 14:17	135.34	0.2	2.2	267.1	560	404	277.25	0 RUNNING	242	224
9/5/2018 14:17	134.73	0.2	2.3	267.4	560	404	281.02	0 RUNNING	242	224
9/5/2018 14:17	134.14	0.2	2.3	267.3	560	407	276.65	0 RUNNING	242	224
9/5/2018 14:17	135.03	0.19	2.2	267.1	560	410	278.96	0 RUNNING	242	224
9/5/2018 14:17	134.46	0.2	2.3	267.3	560	409	277.29	0 RUNNING	242	224
9/5/2018 14:17	135.22	0.2	2.2	267.1	560	410	280.07	0 RUNNING	242	224
9/5/2018 14:17	134.9	0.2	2.3	267.3	560	408	278.24	0 RUNNING	242	224
9/5/2018 14:17	134.19	0.2	2.3	267.3	560	408	276.6	0 RUNNING	242	224
9/5/2018 14:17	134.88	0.2	2.3	267.2	560	409	276.91	0 RUNNING	242	224
9/5/2018 14:17	134.88	0.2	2.4	267.6	560	408	278.04	0 RUNNING	242	224
9/5/2018 14:17	134.37	0.2	2.3	267.4	560	410	279.58	0 RUNNING	242	224
9/5/2018 14:17	134	0.2	2.3	267.3	560	412	275.63	0 RUNNING	242	224
9/5/2018 14:17	134.78	0.2	2.3	267.2	560	414	278.41	0 RUNNING	242	224
9/5/2018 14:17	134.29	0.2	2.3	267.2	560	414	276.09	0 RUNNING	242	224
9/5/2018 14:18	134.52	0.21	2.4	267.6	560	416	277.75	0 RUNNING	242	224
9/5/2018 14:18	135.39	0.2	2.3	267.3	560	419	276.96	0 RUNNING	242	224
9/5/2018 14:18	134.49	0.2	2.3	267.3	560	418	278.06	0 RUNNING	242	224
9/5/2018 14:18	134.83	0.19	2.2	267	560	418	277.25	0 RUNNING	242	224
9/5/2018 14:18	134.51	0.2	2.3	267.4	560	417	277.32	0 RUNNING	242	224
9/5/2018 14:18	134.7	0.19	2.2	267.1	560	419	277.46	0 RUNNING	242	224
9/5/2018 14:18	133.84	0.2	2.3	267.3	560	417	277.42	0 RUNNING	242	224
9/5/2018 14:18	134.93	0.2	2.3	265.9	560	419	276.94	0 RUNNING	242	224
9/5/2018 14:18	134.21	0.19	2.2	265.6	560	422	277.56	0 RUNNING	242	224
9/5/2018 14:18	134.95	0.19	2.2	265.5	560	423	279.41	0 RUNNING	242	224
9/5/2018 14:18	134.53	0.2	2.3	265.9	560	426	275.57	0 RUNNING	242	224
9/5/2018 14:18	134.76	0.2	2.3	265.8	560	429	278.07	0 RUNNING	242	224
9/5/2018 14:18	134.58	0.2	2.3	265.9	560	431	278.47	0 RUNNING	242	224
9/5/2018 14:18	134.74	0.2	2.2	265.7	560	431	278.36	0 RUNNING	242	224
9/5/2018 14:18	134.37	0.2	2.3	265.9	560	433	278.04	0 RUNNING	242	224
9/5/2018 14:18	134.71	0.21	2.4	266.2	560	431	276.79	0 RUNNING	242	224
9/5/2018 14:18	134.39	0.2	2.3	265.9	560	432	278.98	0 RUNNING	242	224
9/5/2018 14:18	134.06	0.2	2.3	265.9	560	430	275.66	0 RUNNING	242	224
9/5/2018 14:18	134.21	0.2	2.3	266	560	431	276.22	0 RUNNING	242	224
9/5/2018 14:18	134.65	0.21	2.4	266.2	560	431	276.33	0 RUNNING	242	224
9/5/2018 14:18	134.37	0.21	2.4	266.3	560	432	278	0 RUNNING	242	224
9/5/2018 14:18	134.84	0.2	2.4	266.1	560	434	278.24	0 RUNNING	242	224
9/5/2018 14:18	134.24	0.2	2.3	265.8	560	438	277.3	0 RUNNING	242	224
9/5/2018 14:18	134.59	0.2	2.3	265.8	560	441	276.58	0 RUNNING	242	224
9/5/2018 14:18	134.57	0.2	2.3	265.9	560	444	279.18	0 RUNNING	242	224
9/5/2018 14:18	134.51	0.2	2.3	265.9	560	445	277.03	0 RUNNING	242	224
9/5/2018 14:18	135.24	0.2	2.3	265.8	560	447	279.65	0 RUNNING	242	224
9/5/2018 14:18	134.29	0.21	2.5	267.9	560	447	275.56	0 RUNNING	242	224
9/5/2018 14:18	134.91	0.21	2.3	267.4	560	446	279.08	0 RUNNING	242	224
9/5/2018 14:18	134.75	0.2	2.3	267.3	560	448	276.89	0 RUNNING	242	224
9/5/2018 14:18	134.97	0.21	2.3	267.5	560	448	277.9	0 RUNNING	242	224
9/5/2018 14:18	135.27	0.2	2.2	267.1	560	449	276.65	0 RUNNING	242	224
9/5/2018 14:18	134.33	0.2	2.3	267.2	560	450	277.88	0 RUNNING	242	224
9/5/2018 14:18	135.47	0.2	2.2	267.1	560	452	279.27	0 RUNNING	242	224
9/5/2018 14:18	134.32	0.2	2.2	267.1	560	454	278.55	0 RUNNING	242	224
9/5/2018 14:18	134.55	0.21	2.4	267.5	560	456	277.83	0 RUNNING	242	224
9/5/2018 14:18	134.15	0.2	2.3	267.2	560	460	277.25	0 RUNNING	242	224
9/5/2018 14:18	134.8	0.2	2.3	267.2	560	464	277.88	0 RUNNING	242	224
9/5/2018 14:18	134.46	0.2	2.3	267.3	560	463	276.48	0 RUNNING	242	224
9/5/2018 14:18	134.32	0.2	2.3	267.3	560	465	276.74	0 RUNNING	242	224
9/5/2018 14:18	134.35	0.2	2.2	267.1	560	462	279.1	0 RUNNING	242	224
9/5/2018 14:18	134.76	0.2	2.2	267.1	560	463	277.22	0 RUNNING	242	224
9/5/2018 14:18	134.94	0.2	2.2	267	560	462	277.71	0 RUNNING	242	224
9/5/2018 14:18	135.54	0.2	2.3	267.3	560	464	279.7	0 RUNNING	242	224
9/5/2018 14:18	134.63	0.2	2.3	267.3	560	461	280.37	0 RUNNING	242	224
9/5/2018 14:18	134.3	0.2	2.3	267.3	560	466	275.18	0 RUNNING	242	224
9/5/2018 14:18	134.56	0.2	2.3	267.2	560	468	277.3	0 RUNNING	242	224
9/5/2018 14:18	135.26	0.2	2.3	265.7	560	470	279.17	0 RUNNING	242	224
9/5/2018 14:18	135.26	0.2	2.3	265.7	560	473	277.71	0 RUNNING	242	224
9/5/2018 14:18	134.48	0.2	2.3	265.9	560	473	277.71	0 RUNNING	242	224
9/5/2018 14:18	135	0.2	2.2	265.7	560	474	279.6	0 RUNNING	242	224

9/5/2018 14:18	135	0.19	2.2	265.5	560	476	278.67	0 RUNNING	242	224
9/5/2018 14:18	134.85	0.2	2.2	265.6	560	476	277.75	0 RUNNING	242	224
9/5/2018 14:18	134.85	0.2	2.3	265.9	560	475	277.7	0 RUNNING	242	224
9/5/2018 14:18	134.2	0.2	2.3	265.9	560	473	277.39	0 RUNNING	242	224
9/5/2018 14:18	135.4	0.2	2.3	265.9	560	473	277.47	0 RUNNING	242	224
9/5/2018 14:18	134.04	0.2	2.2	265.5	560	472	277.88	0 RUNNING	242	224
9/5/2018 14:18	134.76	0.2	2.2	265.6	560	473	278.83	0 RUNNING	242	224
9/5/2018 14:18	134.65	0.2	2.3	265.9	560	474	276.86	0 RUNNING	242	224
9/5/2018 14:19	134.56	0.21	2.3	266	560	476	277.47	0 RUNNING	242	224
9/5/2018 14:19	135.34	0.21	2.3	266	560	478	278.55	0 RUNNING	242	224
9/5/2018 14:19	134.16	0.2	2.3	265.8	560	480	276.16	0 RUNNING	242	224
9/5/2018 14:19	134.73	0.2	2.3	265.9	560	483	277.35	0 RUNNING	242	224
9/5/2018 14:19	134.84	0.2	2.3	265.9	560	484	276.67	0 RUNNING	242	224
9/5/2018 14:19	134.45	0.2	2.2	265.6	560	484	279.13	0 RUNNING	242	224
9/5/2018 14:19	134.95	0.21	2.3	265.9	560	484	277.53	0 RUNNING	242	224
9/5/2018 14:19	135.29	0.21	2.3	266	560	485	278.35	0 RUNNING	242	224
9/5/2018 14:19	134.95	0.2	2.3	265.8	560	483	279.29	0 RUNNING	242	224
9/5/2018 14:19	134.2	0.2	2.2	267.1	560	484	275.52	0 RUNNING	242	224
9/5/2018 14:19	134.42	0.21	2.3	267.3	560	485	278.52	0 RUNNING	242	224
9/5/2018 14:19	134.66	0.21	2.4	267.6	560	487	277.58	0 RUNNING	242	224
9/5/2018 14:19	134.31	0.2	2.3	267.2	560	490	276.14	0 RUNNING	242	224
9/5/2018 14:19	134.65	0.21	2.4	267.6	560	492	275.37	0 RUNNING	242	224
9/5/2018 14:19	134.08	0.21	2.3	267.4	560	494	279.3	0 RUNNING	242	224
9/5/2018 14:19	135.25	0.2	2.2	267	560	497	278.52	0 RUNNING	242	224
9/5/2018 14:19	135.67	0.2	2.3	267.4	560	500	279.13	0 RUNNING	242	224
9/5/2018 14:19	134.56	0.21	2.3	267.5	560	499	279.8	0 RUNNING	242	224
9/5/2018 14:19	135.3	0.2	2.3	267.2	560	500	276.45	0 RUNNING	242	224
9/5/2018 14:19	134.52	0.2	2.3	265.8	560	499	278.67	0 RUNNING	242	224
9/5/2018 14:19	135.55	0.21	2.3	265.9	560	498	279.94	0 RUNNING	242	224
9/5/2018 14:19	134.69	0.2	2.2	265.7	560	497	277.88	0 RUNNING	242	224
9/5/2018 14:19	135.2	0.2	2.3	265.8	560	498	277.58	0 RUNNING	242	224
9/5/2018 14:19	134.25	0.21	2.3	265.9	560	500	277.58	0 RUNNING	242	224
9/5/2018 14:19	134.59	0.21	2.3	266.1	560	501	279.3	0 RUNNING	242	224
9/5/2018 14:19	134.7	0.21	2.3	266	560	504	277.17	0 RUNNING	242	224
9/5/2018 14:19	135.4	0.21	2.4	266.1	560	506	277.2	0 RUNNING	242	224
9/5/2018 14:19	134.63	0.21	2.3	266	560	508	278.23	0 RUNNING	242	224
9/5/2018 14:19	134.32	0.21	2.4	266.2	560	509	278.12	0 RUNNING	242	224
9/5/2018 14:19	134.68	0.21	2.3	266.1	560	510	277.97	0 RUNNING	242	224
9/5/2018 14:19	135.03	0.21	2.3	265.8	560	510	276.05	0 RUNNING	242	224
9/5/2018 14:19	134.42	0.22	2.4	266.3	560	509	278.18	0 RUNNING	242	224
9/5/2018 14:19	134.63	0.21	2.3	265.9	560	507	276.02	0 RUNNING	242	224
9/5/2018 14:19	134.56	0.21	2.3	266	560	506	277.82	0 RUNNING	242	224
9/5/2018 14:19	135.12	0.21	2.4	266.2	560	505	278.12	0 RUNNING	242	224
9/5/2018 14:19	134.85	0.21	2.3	266	560	506	277.32	0 RUNNING	242	224
9/5/2018 14:19	134.57	0.21	2.3	266	560	507	277.8	0 RUNNING	242	224
9/5/2018 14:19	134.82	0.21	2.3	266.1	560	509	279.13	0 RUNNING	242	224
9/5/2018 14:19	134.79	0.21	2.4	266.1	560	511	277.23	0 RUNNING	242	224
9/5/2018 14:19	134.85	0.2	2.3	265.8	560	513	277.95	0 RUNNING	242	224
9/5/2018 14:19	134.55	0.21	2.3	265.9	560	514	279.68	0 RUNNING	242	224
9/5/2018 14:19	134.25	0.21	2.4	266.2	560	514	276.09	0 RUNNING	242	224
9/5/2018 14:19	134.58	0.21	2.3	266.1	560	515	277.1	0 RUNNING	242	224
9/5/2018 14:19	134.61	0.2	2.2	265.7	560	514	278.36	0 RUNNING	242	224
9/5/2018 14:19	134.75	0.2	2.3	265.8	560	513	277.49	0 RUNNING	242	224
9/5/2018 14:19	134.96	0.21	2.3	265.9	560	511	279.29	0 RUNNING	242	224
9/5/2018 14:19	134.78	0.21	2.4	266.3	560	511	277.13	0 RUNNING	242	224
9/5/2018 14:19	134.75	0.22	2.4	266.3	560	512	278.26	0 RUNNING	242	224
9/5/2018 14:19	135.25	0.21	2.4	266.2	560	513	278.19	0 RUNNING	242	224
9/5/2018 14:19	135.59	0.21	2.3	266.1	560	513	278.47	0 RUNNING	242	224
9/5/2018 14:19	134.93	0.21	2.4	266.2	560	516	278.11	0 RUNNING	242	224
9/5/2018 14:19	134.92	0.21	2.4	266.2	560	518	277.25	0 RUNNING	242	224
9/5/2018 14:19	134.65	0.22	2.5	266.6	560	518	277.53	0 RUNNING	242	224
9/5/2018 14:19	135.22	0.21	2.3	266.1	560	519	277.8	0 RUNNING	242	224
9/5/2018 14:19	135.7	0.21	2.3	265.9	560	520	277.88	0 RUNNING	242	224
9/5/2018 14:19	134.76	0.22	2.4	266.4	560	517	276.89	0 RUNNING	242	224
9/5/2018 14:19	135.17	0.21	2.3	265.9	560	517	277.9	0 RUNNING	242	224

9/5/2018 14:19	134.01	0.22	2.4	266.3	560	515	275.87	0 RUNNING	242	224
9/5/2018 14:19	134.81	0.21	2.4	266.2	560	515	278.35	0 RUNNING	242	224
9/5/2018 14:20	134.48	0.22	2.4	266.3	560	514	277.9	0 RUNNING	242	224
9/5/2018 14:20	135.04	0.22	2.4	266.2	560	515	277.08	0 RUNNING	242	224
9/5/2018 14:20	135.17	0.21	2.3	266	560	517	277.92	0 RUNNING	242	224
9/5/2018 14:20	134.68	0.22	2.4	266.4	560	517	277.05	0 RUNNING	242	224
9/5/2018 14:20	135.1	0.21	2.4	266.2	560	521	278.43	0 RUNNING	242	224
9/5/2018 14:20	135.31	0.22	2.4	266.2	560	521	276.82	0 RUNNING	242	224
9/5/2018 14:20	134.26	0.22	2.4	266.3	560	521	275.99	0 RUNNING	242	224
9/5/2018 14:20	134.15	0.21	2.4	266.2	560	520	277.82	0 RUNNING	242	224
9/5/2018 14:20	135.05	0.21	2.4	266.2	560	519	277.51	0 RUNNING	242	224
9/5/2018 14:20	134.36	0.21	2.4	266.2	560	518	276.82	0 RUNNING	242	224
9/5/2018 14:20	134.44	0.21	2.4	266.3	560	517	276.74	0 RUNNING	242	224
9/5/2018 14:20	135.31	0.21	2.4	266.1	560	516	278.5	0 RUNNING	242	224
9/5/2018 14:20	134.2	0.21	2.3	266.1	560	514	277.22	0 RUNNING	242	224
9/5/2018 14:20	134.95	0.21	2.3	266.1	560	515	278.21	0 RUNNING	242	224
9/5/2018 14:20	134.42	0.21	2.3	266	560	518	277.47	0 RUNNING	242	224
9/5/2018 14:20	134.81	0.21	2.4	266.1	560	519	278.38	0 RUNNING	242	224
9/5/2018 14:20	134.42	0.21	2.3	266.1	560	522	277.82	0 RUNNING	242	224
9/5/2018 14:20	134.69	0.22	2.4	266.3	560	522	277.56	0 RUNNING	242	224
9/5/2018 14:20	135.06	0.22	2.4	266.2	560	522	277.32	0 RUNNING	242	224
9/5/2018 14:20	135.21	0.22	2.5	266.6	560	523	280.28	0 RUNNING	242	224
9/5/2018 14:20	134.16	0.22	2.4	267.9	560	520	274.14	0 RUNNING	242	224
9/5/2018 14:20	134.53	0.21	2.4	267.6	560	521	280.78	0 RUNNING	242	224
9/5/2018 14:20	134.3	0.22	2.4	267.6	560	519	277.82	0 RUNNING	242	224
9/5/2018 14:20	134.86	0.21	2.4	267.7	560	517	276.65	0 RUNNING	242	224
9/5/2018 14:20	135.09	0.22	2.4	267.9	560	515	278.16	0 RUNNING	242	224
9/5/2018 14:20	134.78	0.22	2.5	268.1	560	516	277.54	0 RUNNING	242	224
9/5/2018 14:20	135.48	0.22	2.5	268	560	519	278.6	0 RUNNING	242	224
9/5/2018 14:20	134.73	0.22	2.5	267.9	560	521	277.56	0 RUNNING	242	224
9/5/2018 14:20	134.89	0.22	2.4	267.8	560	520	276.09	0 RUNNING	242	224
9/5/2018 14:20	134.94	0.22	2.4	267.7	560	523	279.61	0 RUNNING	242	224
9/5/2018 14:20	135.04	0.22	2.5	266.6	560	523	279.07	0 RUNNING	242	224
9/5/2018 14:20	135.25	0.22	2.5	266.5	560	524	276.5	0 RUNNING	242	224
9/5/2018 14:20	134.85	0.22	2.5	266.6	560	522	279.73	0 RUNNING	242	224
9/5/2018 14:20	134.13	0.23	2.5	266.7	560	520	277.05	0 RUNNING	242	224
9/5/2018 14:20	134.83	0.23	2.5	266.7	560	518	276.65	0 RUNNING	242	224
9/5/2018 14:20	134.85	0.22	2.5	266.6	560	517	276.91	0 RUNNING	242	224
9/5/2018 14:20	134.34	0.21	2.4	266.2	560	518	277.63	0 RUNNING	242	224
9/5/2018 14:20	135.07	0.22	2.4	266.4	560	517	277.71	0 RUNNING	242	224
9/5/2018 14:20	134.29	0.22	2.4	266.4	560	518	277.95	0 RUNNING	242	224
9/5/2018 14:20	135.52	0.22	2.5	266.5	560	519	279.56	0 RUNNING	242	224
9/5/2018 14:20	134.59	0.22	2.5	268.1	560	522	277.08	0 RUNNING	242	224
9/5/2018 14:20	134.88	0.22	2.4	267.8	560	523	278.48	0 RUNNING	242	224
9/5/2018 14:20	134.82	0.22	2.5	268.1	560	523	278.83	0 RUNNING	242	224
9/5/2018 14:20	135.56	0.22	2.5	268	560	524	278.77	0 RUNNING	242	224
9/5/2018 14:20	134.82	0.22	2.5	268	560	523	278.98	0 RUNNING	242	224
9/5/2018 14:20	134.48	0.21	2.4	267.6	560	522	277.34	0 RUNNING	242	224
9/5/2018 14:20	134.34	0.22	2.4	267.8	560	520	275.59	0 RUNNING	242	224
9/5/2018 14:20	134.84	0.21	2.4	267.6	560	519	277.64	0 RUNNING	242	224
9/5/2018 14:20	134.42	0.22	2.5	268	560	517	277.39	0 RUNNING	242	224
9/5/2018 14:20	135.33	0.23	2.5	268.1	560	517	277.85	0 RUNNING	242	224
9/5/2018 14:20	135.68	0.22	2.4	267.7	560	518	279.73	0 RUNNING	242	224
9/5/2018 14:20	134.14	0.22	2.5	267.9	560	517	279.13	0 RUNNING	242	224
9/5/2018 14:20	134.67	0.21	2.3	267.4	560	521	276.4	0 RUNNING	242	224
9/5/2018 14:20	134.95	0.21	2.3	267.3	560	524	279.87	0 RUNNING	242	224
9/5/2018 14:20	134.2	0.21	2.4	267.7	560	524	276.14	0 RUNNING	242	224
9/5/2018 14:20	135.03	0.22	2.5	268.1	560	523	280.52	0 RUNNING	242	224
9/5/2018 14:20	134.52	0.22	2.5	268.1	560	521	276.38	0 RUNNING	242	224
9/5/2018 14:20	134.53	0.22	2.5	268	560	522	277.37	0 RUNNING	242	224
9/5/2018 14:20	134.74	0.22	2.5	268	560	520	277.68	0 RUNNING	242	224
9/5/2018 14:20	135.01	0.22	2.4	267.7	560	519	278.09	0 RUNNING	242	224
9/5/2018 14:21	135.01	0.22	2.5	268.1	560	517	277.27	0 RUNNING	242	224
9/5/2018 14:21	135.19	0.23	2.5	268.1	560	517	279.36	0 RUNNING	242	224
9/5/2018 14:21	134.33	0.22	2.4	267.9	560	518	277.06	0 RUNNING	242	224

9/5/2018 14:21	134.88	0.22	2.5	267.9	560	520	278.74	0 RUNNING	242	224
9/5/2018 14:21	134.29	0.22	2.4	267.7	560	521	276.91	0 RUNNING	242	224
9/5/2018 14:21	135.1	0.22	2.5	268.1	560	522	278.79	0 RUNNING	242	224
9/5/2018 14:21	134.75	0.22	2.4	267.7	560	524	279.51	0 RUNNING	242	224
9/5/2018 14:21	134.44	0.22	2.4	267.7	560	523	277.2	0 RUNNING	242	224
9/5/2018 14:21	134.95	0.22	2.4	267.7	560	522	276.86	0 RUNNING	242	224
9/5/2018 14:21	135.32	0.22	2.5	267.9	560	520	281.89	0 RUNNING	242	224
9/5/2018 14:21	134.9	0.21	2.4	267.5	560	518	277.03	0 RUNNING	242	224
9/5/2018 14:21	134.79	0.21	2.4	267.5	560	519	278.69	0 RUNNING	242	224
9/5/2018 14:21	134.51	0.21	2.3	267.4	560	517	277.37	0 RUNNING	242	224
9/5/2018 14:21	135.14	0.22	2.4	267.7	560	516	277.92	0 RUNNING	242	224
9/5/2018 14:21	134.61	0.21	2.3	267.5	560	516	275.9	0 RUNNING	242	224
9/5/2018 14:21	134.51	0.21	2.3	267.5	560	517	280.04	0 RUNNING	242	224
9/5/2018 14:21	134.44	0.22	2.4	267.8	560	519	276.57	0 RUNNING	242	224
9/5/2018 14:21	135.21	0.22	2.5	267.9	560	521	279.37	0 RUNNING	242	224
9/5/2018 14:21	134.39	0.21	2.4	267.6	560	521	276.91	0 RUNNING	242	224
9/5/2018 14:21	135.23	0.22	2.4	267.9	560	521	277.97	0 RUNNING	242	224
9/5/2018 14:21	135.34	0.21	2.4	267.6	560	521	277.88	0 RUNNING	242	224
9/5/2018 14:21	134.56	0.22	2.4	267.9	560	519	277.94	0 RUNNING	242	224
9/5/2018 14:21	134.66	0.22	2.4	267.9	560	517	277.44	0 RUNNING	242	224
9/5/2018 14:21	134.8	0.23	2.5	268.1	560	517	277.53	0 RUNNING	242	224
9/5/2018 14:21	134.59	0.22	2.5	268	560	514	279.82	0 RUNNING	242	224
9/5/2018 14:21	134.9	0.22	2.4	267.9	560	513	277.42	0 RUNNING	242	224
9/5/2018 14:21	134.81	0.22	2.5	267.9	560	514	278.6	0 RUNNING	242	224
9/5/2018 14:21	134.48	0.21	2.4	267.7	560	513	277.95	0 RUNNING	242	224
9/5/2018 14:21	134.22	0.21	2.3	267.4	560	514	278.02	0 RUNNING	242	224
9/5/2018 14:21	134.16	0.22	2.4	267.8	560	516	277.23	0 RUNNING	242	224
9/5/2018 14:21	135.14	0.22	2.4	267.7	560	516	279.27	0 RUNNING	242	224
9/5/2018 14:21	134.44	0.21	2.4	267.7	560	516	277.92	0 RUNNING	242	224
9/5/2018 14:21	135.25	0.21	2.3	267.3	560	515	278.84	0 RUNNING	242	224
9/5/2018 14:21	135.26	0.21	2.3	267.4	560	515	280.28	0 RUNNING	242	224
9/5/2018 14:21	134.11	0.21	2.3	267.5	560	511	275.51	0 RUNNING	242	224
9/5/2018 14:21	134.86	0.21	2.3	267.4	560	511	278.28	0 RUNNING	242	224
9/5/2018 14:21	134.68	0.21	2.4	267.6	560	508	279.56	0 RUNNING	242	224
9/5/2018 14:21	135.59	0.21	2.4	267.6	560	508	277.87	0 RUNNING	242	224
9/5/2018 14:21	134.62	0.21	2.3	267.4	560	506	277.76	0 RUNNING	242	224
9/5/2018 14:21	134.88	0.2	2.2	267.1	560	506	278.64	0 RUNNING	242	224
9/5/2018 14:21	134.56	0.2	2.3	265.7	560	506	277.11	0 RUNNING	242	224
9/5/2018 14:21	134.56	0.2	2.3	265.7	560	508	279.87	0 RUNNING	242	224
9/5/2018 14:21	135.48	0.21	2.3	265.9	560	508	280.25	0 RUNNING	242	224
9/5/2018 14:21	135.1	0.21	2.4	266.2	560	508	280.25	0 RUNNING	242	224
9/5/2018 14:21	134.64	0.2	2.3	265.9	560	509	277.7	0 RUNNING	242	224
9/5/2018 14:21	135.13	0.21	2.4	266.2	560	507	276.87	0 RUNNING	242	224
9/5/2018 14:21	134.77	0.2	2.3	265.9	560	505	279.13	0 RUNNING	242	224
9/5/2018 14:21	134.41	0.21	2.3	265.9	560	503	276.65	0 RUNNING	242	224
9/5/2018 14:21	134.39	0.21	2.3	266	560	499	279.32	0 RUNNING	242	224
9/5/2018 14:21	134.73	0.21	2.4	266.1	560	497	277.2	0 RUNNING	242	224
9/5/2018 14:21	134.97	0.21	2.3	266	560	495	278.41	0 RUNNING	242	224
9/5/2018 14:21	134.72	0.2	2.3	265.8	560	491	278.93	0 RUNNING	242	224
9/5/2018 14:21	134.82	0.21	2.3	267.3	560	492	277.32	0 RUNNING	242	224
9/5/2018 14:21	134.37	0.21	2.3	267.5	560	490	277.06	0 RUNNING	242	224
9/5/2018 14:21	135.15	0.2	2.3	267.4	560	491	279.42	0 RUNNING	242	224
9/5/2018 14:21	134.59	0.21	2.4	267.6	560	489	276.79	0 RUNNING	242	224
9/5/2018 14:21	135.2	0.2	2.3	267.2	560	490	278.89	0 RUNNING	242	224
9/5/2018 14:21	133.87	0.21	2.3	267.5	560	487	277.13	0 RUNNING	242	224
9/5/2018 14:21	135.09	0.21	2.3	267.4	560	485	279.03	0 RUNNING	242	224
9/5/2018 14:22	134.88	0.21	2.4	267.7	560	482	279.27	0 RUNNING	242	224
9/5/2018 14:22	135.55	0.2	2.2	267.2	560	478	277.68	0 RUNNING	242	224
9/5/2018 14:22	134.28	0.21	2.3	267.4	560	475	278.5	0 RUNNING	242	224
9/5/2018 14:22	134.7	0.2	2.3	267.4	560	472	276.98	0 RUNNING	242	224
9/5/2018 14:22	135.41	0.2	2.3	267.4	560	473	279.56	0 RUNNING	242	224
9/5/2018 14:22	135.11	0.2	2.3	267.3	560	472	279.01	0 RUNNING	242	224
9/5/2018 14:22	134.17	0.2	2.3	267.2	560	473	276.46	0 RUNNING	242	224
9/5/2018 14:22	135.13	0.2	2.2	267	560	476	278.83	0 RUNNING	242	224
9/5/2018 14:22	135.48	0.2	2.2	267	560	476	277.05	0 RUNNING	242	224

9/5/2018 14:22	134.92	0.2	2.2	267	560	476	281.63	0 RUNNING	242	224
9/5/2018 14:22	134.78	0.21	2.3	267.4	560	475	277.37	0 RUNNING	242	224
9/5/2018 14:22	134.56	0.2	2.3	267.2	560	475	278.09	0 RUNNING	242	224
9/5/2018 14:22	134.9	0.2	2.2	267	560	471	277.87	0 RUNNING	242	224
9/5/2018 14:22	135.44	0.2	2.2	267	560	468	280.28	0 RUNNING	242	224
9/5/2018 14:22	133.49	0.2	2.2	267.1	560	467	277.53	0 RUNNING	242	224
9/5/2018 14:22	135.39	0.2	2.3	267.2	560	466	279.17	0 RUNNING	242	224
9/5/2018 14:22	134.23	0.2	2.3	267.3	560	465	276.81	0 RUNNING	242	224
9/5/2018 14:22	135.27	0.2	2.3	267.2	560	464	279.75	0 RUNNING	242	224
9/5/2018 14:22	134.3	0.2	2.3	267.3	560	466	278.24	0 RUNNING	242	224
9/5/2018 14:22	134.96	0.2	2.2	267	560	468	277.8	0 RUNNING	242	224
9/5/2018 14:22	134.62	0.2	2.3	267.2	560	470	278.41	0 RUNNING	242	224
9/5/2018 14:22	135.41	0.2	2.2	266.9	560	470	281.29	0 RUNNING	242	224
9/5/2018 14:22	134.7	0.2	2.3	267.1	560	470	277.37	0 RUNNING	242	224
9/5/2018 14:22	134.99	0.2	2.3	267.3	560	470	277.75	0 RUNNING	242	224
9/5/2018 14:22	134.5	0.2	2.3	267.3	560	467	279.25	0 RUNNING	242	224
9/5/2018 14:22	135.15	0.2	2.3	267.4	560	463	278.19	0 RUNNING	242	224
9/5/2018 14:22	134.61	0.2	2.3	267.4	560	460	277.95	0 RUNNING	242	224
9/5/2018 14:22	134.33	0.2	2.3	267.3	560	457	275.28	0 RUNNING	242	224
9/5/2018 14:22	134.45	0.2	2.3	267.2	560	456	278.16	0 RUNNING	242	224
9/5/2018 14:22	134.68	0.2	2.3	267.4	560	455	277.64	0 RUNNING	242	224
9/5/2018 14:22	135.3	0.2	2.3	267.3	560	456	279.07	0 RUNNING	242	224
9/5/2018 14:22	134.48	0.2	2.3	267.2	560	457	279.12	0 RUNNING	242	224
9/5/2018 14:22	135.11	0.2	2.2	267	560	457	278.72	0 RUNNING	242	224
9/5/2018 14:22	134.76	0.2	2.3	267.1	560	457	276.82	0 RUNNING	242	224
9/5/2018 14:22	134.03	0.2	2.3	267.2	560	455	275.95	0 RUNNING	242	224
9/5/2018 14:22	135.62	0.2	2.2	267	560	454	279.48	0 RUNNING	242	224
9/5/2018 14:22	134.62	0.2	2.2	267	560	452	277.35	0 RUNNING	242	224
9/5/2018 14:22	134.71	0.19	2.2	266.9	560	451	277.01	0 RUNNING	242	224
9/5/2018 14:22	134.47	0.2	2.3	267.3	560	448	278.4	0 RUNNING	242	224
9/5/2018 14:22	134.22	0.19	2.2	267	560	447	276.77	0 RUNNING	242	224
9/5/2018 14:22	134.98	0.2	2.3	267.2	560	447	278.06	0 RUNNING	242	224
9/5/2018 14:22	134.42	0.2	2.3	267.3	560	447	279.39	0 RUNNING	242	224
9/5/2018 14:22	134.68	0.2	2.2	267	560	447	278.4	0 RUNNING	242	224
9/5/2018 14:22	134.47	0.19	2.2	266.9	560	449	277.22	0 RUNNING	242	224
9/5/2018 14:22	134.16	0.2	2.3	267.2	560	449	273.78	0 RUNNING	242	224
9/5/2018 14:22	135.05	0.2	2.2	267	560	448	281	0 RUNNING	242	224
9/5/2018 14:22	134.72	0.19	2.1	266.8	560	448	276.31	0 RUNNING	242	224
9/5/2018 14:22	134.7	0.2	2.3	267.2	560	447	277.94	0 RUNNING	242	224
9/5/2018 14:22	134.5	0.2	2.3	267.3	560	444	278.02	0 RUNNING	242	224
9/5/2018 14:22	134.39	0.2	2.3	267.3	560	442	278.47	0 RUNNING	242	224
9/5/2018 14:22	134.61	0.2	2.3	267.3	560	440	278.67	0 RUNNING	242	224
9/5/2018 14:22	134.72	0.2	2.3	267.4	560	438	278.72	0 RUNNING	242	224
9/5/2018 14:22	134.61	0.2	2.3	267.3	560	436	276.81	0 RUNNING	242	224
9/5/2018 14:22	135.35	0.2	2.3	267.2	560	437	280.04	0 RUNNING	242	224
9/5/2018 14:22	134.96	0.2	2.3	267.4	560	437	278.48	0 RUNNING	242	224
9/5/2018 14:22	134.56	0.2	2.3	267.3	560	438	277.46	0 RUNNING	242	224
9/5/2018 14:22	135.39	0.2	2.3	267.3	560	438	279.42	0 RUNNING	242	224
9/5/2018 14:22	134.85	0.2	2.3	267.2	560	440	277.42	0 RUNNING	242	224
9/5/2018 14:22	134.5	0.2	2.3	267.4	560	439	277.44	0 RUNNING	242	224
9/5/2018 14:23	134.98	0.2	2.3	267.3	560	440	276.96	0 RUNNING	242	224
9/5/2018 14:23	134.17	0.2	2.3	267.4	560	436	279.1	0 RUNNING	242	224
9/5/2018 14:23	133.87	0.2	2.3	267.4	560	433	277.13	0 RUNNING	242	224
9/5/2018 14:23	134.69	0.2	2.3	267.2	560	433	278.48	0 RUNNING	242	224
9/5/2018 14:23	134.24	0.2	2.2	267	560	431	276.86	0 RUNNING	242	224
9/5/2018 14:23	134.56	0.21	2.4	267.5	560	430	278.36	0 RUNNING	242	224
9/5/2018 14:23	134.31	0.2	2.3	267.3	560	430	279.18	0 RUNNING	242	224
9/5/2018 14:23	134.25	0.2	2.3	267.2	560	433	275.71	0 RUNNING	242	224
9/5/2018 14:23	135.12	0.21	2.3	267.5	560	434	279.29	0 RUNNING	242	224
9/5/2018 14:23	134.3	0.2	2.3	267.3	560	434	276	0 RUNNING	242	224
9/5/2018 14:23	135.26	0.2	2.3	267.4	560	435	279.89	0 RUNNING	242	224
9/5/2018 14:23	134.75	0.2	2.2	267	560	437	278.59	0 RUNNING	242	224
9/5/2018 14:23	135.01	0.2	2.3	267.4	560	434	279.9	0 RUNNING	242	224
9/5/2018 14:23	134.57	0.21	2.4	267.6	560	433	277.13	0 RUNNING	242	224
9/5/2018 14:23	135.38	0.2	2.4	267.5	560	431	278.95	0 RUNNING	242	224

9/5/2018 14:23	135.11	0.2	2.3	267.2	560	429	279.89	0 RUNNING	242	224
9/5/2018 14:23	135.26	0.2	2.3	267.4	560	427	278.41	0 RUNNING	242	224
9/5/2018 14:23	134.33	0.2	2.3	267.4	560	425	277.73	0 RUNNING	242	224
9/5/2018 14:23	135.32	0.2	2.3	267.3	560	425	279.97	0 RUNNING	242	224
9/5/2018 14:23	134.91	0.2	2.3	267.2	560	424	278.53	0 RUNNING	242	224
9/5/2018 14:23	134.61	0.2	2.3	267.2	560	424	277.92	0 RUNNING	242	224
9/5/2018 14:23	134.79	0.2	2.3	267.2	560	424	278.24	0 RUNNING	242	224
9/5/2018 14:23	134.84	0.2	2.3	267.2	560	425	277.41	0 RUNNING	242	224
9/5/2018 14:23	134.59	0.2	2.2	267.1	560	424	276.7	0 RUNNING	242	224
9/5/2018 14:23	134.46	0.2	2.3	267.2	560	423	277.76	0 RUNNING	242	224
9/5/2018 14:23	134.1	0.2	2.4	267.5	560	420	278.33	0 RUNNING	242	224
9/5/2018 14:23	134.5	0.21	2.4	267.8	560	418	277.61	0 RUNNING	242	224
9/5/2018 14:23	134.37	0.2	2.3	267.3	560	416	276.99	0 RUNNING	242	224
9/5/2018 14:23	134.41	0.2	2.3	267.5	560	413	278.38	0 RUNNING	242	224
9/5/2018 14:23	134.77	0.2	2.3	267.5	560	412	278.74	0 RUNNING	242	224
9/5/2018 14:23	134.49	0.2	2.3	267.4	560	413	279.58	0 RUNNING	242	224
9/5/2018 14:23	134.7	0.2	2.3	267.5	560	414	277.11	0 RUNNING	242	224
9/5/2018 14:23	135.4	0.21	2.4	267.6	560	415	280.43	0 RUNNING	242	224
9/5/2018 14:23	134.62	0.2	2.3	267.4	560	417	277.1	0 RUNNING	242	224
9/5/2018 14:23	134.83	0.2	2.3	267.3	560	418	278.83	0 RUNNING	242	224
9/5/2018 14:23	132.65	0.2	2.3	267.5	560	420	275.39	0 RUNNING	242	224
9/5/2018 14:23	134.43	0.2	2.3	267.4	560	420	276.07	0 RUNNING	242	224
9/5/2018 14:23	135.02	0.21	2.4	267.7	560	419	278.64	0 RUNNING	242	224
9/5/2018 14:23	134.33	0.2	2.3	267.2	560	417	277.34	0 RUNNING	242	224
9/5/2018 14:23	135.15	0.2	2.3	267.3	560	415	279.46	0 RUNNING	242	224
9/5/2018 14:23	134.13	0.2	2.3	267.3	560	414	274.41	0 RUNNING	242	224
9/5/2018 14:23	134.54	0.2	2.3	267.4	560	415	275.78	0 RUNNING	242	224
9/5/2018 14:23	134.62	0.19	2.2	267.1	560	414	279.25	0 RUNNING	242	224
9/5/2018 14:23	134.85	0.2	2.3	267.2	560	416	276.84	0 RUNNING	242	224
9/5/2018 14:23	134.87	0.2	2.3	267.4	560	417	278.74	0 RUNNING	242	224
9/5/2018 14:23	135.93	0.2	2.3	267.2	560	419	280.71	0 RUNNING	242	224
9/5/2018 14:23	135.25	0.2	2.4	267.5	560	421	278.06	0 RUNNING	242	224
9/5/2018 14:23	134.29	0.2	2.3	267.3	560	420	277.88	0 RUNNING	242	224
9/5/2018 14:23	135.15	0.2	2.4	267.5	560	420	278.64	0 RUNNING	242	224
9/5/2018 14:23	133.92	0.2	2.3	267.4	560	419	278.55	0 RUNNING	242	224
9/5/2018 14:23	135.13	0.2	2.3	267.4	560	418	278.28	0 RUNNING	242	224
9/5/2018 14:23	134.06	0.2	2.3	267.4	560	416	278.21	0 RUNNING	242	224
9/5/2018 14:23	134.36	0.2	2.3	267.2	560	414	278.07	0 RUNNING	242	224
9/5/2018 14:23	134.68	0.2	2.3	267.4	560	414	276.77	0 RUNNING	242	224
9/5/2018 14:23	134.46	0.2	2.3	267.4	560	414	277.92	0 RUNNING	242	224
9/5/2018 14:23	134.84	0.2	2.3	267.4	560	415	278.64	0 RUNNING	242	224
9/5/2018 14:23	134.38	0.21	2.4	267.7	560	415	278.72	0 RUNNING	242	224
9/5/2018 14:23	134.61	0.2	2.3	267.3	560	418	276.55	0 RUNNING	242	224
9/5/2018 14:23	135.71	0.19	2.2	267	560	419	281.58	0 RUNNING	242	224
9/5/2018 14:24	134.75	0.2	2.3	267.4	560	417	279.25	0 RUNNING	242	224
9/5/2018 14:24	134.87	0.2	2.3	267.3	560	420	276.21	0 RUNNING	242	224
9/5/2018 14:24	134.73	0.2	2.3	267.3	560	418	279.42	0 RUNNING	242	224
9/5/2018 14:24	134.14	0.2	2.4	267.5	560	416	276.93	0 RUNNING	242	224
9/5/2018 14:24	134.7	0.2	2.3	267.2	560	415	276.77	0 RUNNING	242	224
9/5/2018 14:24	134.36	0.2	2.3	267.1	560	413	278.64	0 RUNNING	242	224
9/5/2018 14:24	134.66	0.2	2.3	267.1	560	413	277.88	0 RUNNING	242	224
9/5/2018 14:24	135.22	0.19	2.2	267	560	413	278.95	0 RUNNING	242	224
9/5/2018 14:24	134.65	0.19	2.2	267.1	560	414	277.29	0 RUNNING	242	224
9/5/2018 14:24	134.72	0.2	2.3	267.1	560	416	277.54	0 RUNNING	242	224
9/5/2018 14:24	134.62	0.2	2.3	267.2	560	418	277.05	0 RUNNING	242	224
9/5/2018 14:24	135.26	0.2	2.3	267.2	560	419	277.9	0 RUNNING	242	224
9/5/2018 14:24	134.83	0.2	2.2	267	560	419	278.28	0 RUNNING	242	224
9/5/2018 14:24	135.1	0.19	2.2	267	560	421	276.34	0 RUNNING	242	224
9/5/2018 14:24	134.36	0.2	2.3	267.2	560	420	277.47	0 RUNNING	242	224
9/5/2018 14:24	135.68	0.2	2.3	267.2	560	419	278.36	0 RUNNING	242	224
9/5/2018 14:24	134.34	0.2	2.3	267.2	560	418	277.88	0 RUNNING	242	224
9/5/2018 14:24	134.92	0.2	2.3	267.4	560	416	278.59	0 RUNNING	242	224
9/5/2018 14:24	134.97	0.2	2.2	267.1	560	415	277.29	0 RUNNING	242	224
9/5/2018 14:24	134.75	0.19	2.2	267.1	560	416	276.21	0 RUNNING	242	224
9/5/2018 14:24	134.35	0.2	2.3	267.2	560	416	279.53	0 RUNNING	242	224

9/5/2018 14:24	135.1	0.19	2.2	267	560	418	279.54	0 RUNNING	242	224
9/5/2018 14:24	134.39	0.2	2.4	267.5	560	419	275.73	0 RUNNING	242	224
9/5/2018 14:24	134.32	0.2	2.3	267.3	560	422	275.81	0 RUNNING	242	224
9/5/2018 14:24	135.27	0.2	2.3	267.3	560	422	278.96	0 RUNNING	242	224
9/5/2018 14:24	134.9	0.2	2.4	267.5	560	422	278.41	0 RUNNING	242	224
9/5/2018 14:24	134.3	0.2	2.3	267.2	560	423	278.09	0 RUNNING	242	224
9/5/2018 14:24	134.59	0.21	2.4	267.7	560	423	276.86	0 RUNNING	242	224
9/5/2018 14:24	135.19	0.21	2.4	267.7	560	421	278.12	0 RUNNING	242	224
9/5/2018 14:24	135.15	0.21	2.4	267.6	560	418	278.26	0 RUNNING	242	224
9/5/2018 14:24	134.33	0.21	2.4	267.6	560	415	279.03	0 RUNNING	242	224
9/5/2018 14:24	134.87	0.21	2.5	267.9	560	414	277.05	0 RUNNING	242	224
9/5/2018 14:24	134.59	0.21	2.4	267.7	560	413	275.39	0 RUNNING	242	224
9/5/2018 14:24	134.82	0.2	2.3	267.4	560	415	279.13	0 RUNNING	242	224
9/5/2018 14:24	134.17	0.2	2.3	267.2	560	415	275.35	0 RUNNING	242	224
9/5/2018 14:24	135.37	0.2	2.3	267.3	560	416	281.24	0 RUNNING	242	224
9/5/2018 14:24	134.99	0.2	2.3	267.4	560	416	278.07	0 RUNNING	242	224
9/5/2018 14:24	134.84	0.2	2.4	267.6	560	418	276.62	0 RUNNING	242	224
9/5/2018 14:24	134.5	0.2	2.3	267.2	560	416	276.72	0 RUNNING	242	224
9/5/2018 14:24	134.5	0.2	2.3	267.2	560	416	276.72	0 RUNNING	242	224
9/5/2018 14:24	135.19	0.2	2.3	267.4	560	415	279.87	0 RUNNING	242	224
9/5/2018 14:24	134.94	0.2	2.4	267.5	560	414	276.46	0 RUNNING	242	224
9/5/2018 14:24	134.33	0.2	2.3	267.4	560	413	278.36	0 RUNNING	242	224
9/5/2018 14:24	134.52	0.2	2.3	267.2	560	411	277.44	0 RUNNING	242	224
9/5/2018 14:24	134.64	0.2	2.3	267.2	560	413	276.28	0 RUNNING	242	224
9/5/2018 14:24	135.04	0.2	2.3	267.3	560	413	277.18	0 RUNNING	242	224
9/5/2018 14:24	134.47	0.21	2.4	267.7	560	414	279.36	0 RUNNING	242	224
9/5/2018 14:24	134.75	0.19	2.2	267.1	560	417	275.01	0 RUNNING	242	224
9/5/2018 14:24	134.87	0.2	2.3	267.3	560	420	277.75	0 RUNNING	242	224
9/5/2018 14:24	134.8	0.21	2.4	267.5	560	422	278.28	0 RUNNING	242	224
9/5/2018 14:24	134.76	0.21	2.3	267.5	560	422	276.96	0 RUNNING	242	224
9/5/2018 14:24	134.31	0.21	2.4	267.6	560	424	275.32	0 RUNNING	242	224
9/5/2018 14:24	135.72	0.2	2.3	267.4	560	424	280.31	0 RUNNING	242	224
9/5/2018 14:24	134.53	0.2	2.4	267.5	560	421	276.5	0 RUNNING	242	224
9/5/2018 14:24	135.59	0.21	2.4	267.7	560	421	278.79	0 RUNNING	242	224
9/5/2018 14:24	134.93	0.21	2.4	267.6	560	418	280.69	0 RUNNING	242	224
9/5/2018 14:24	132.81	0.21	2.3	267.5	560	418	275.06	0 RUNNING	242	224
9/5/2018 14:24	133.62	0.21	2.4	267.6	560	418	276	0 RUNNING	242	224
9/5/2018 14:24	133.45	0.21	2.4	267.6	560	420	276.6	0 RUNNING	242	224
9/5/2018 14:25	135.29	0.21	2.4	267.7	560	421	278.88	0 RUNNING	242	224
9/5/2018 14:25	133.65	0.2	2.3	267.4	560	422	277.23	0 RUNNING	242	224
9/5/2018 14:25	131.64	0.2	2.3	267.3	560	423	273.06	0 RUNNING	242	224
9/5/2018 14:25	134.63	0.21	2.4	267.6	560	425	280.3	0 RUNNING	242	224
9/5/2018 14:25	134.52	0.2	2.3	267.4	560	425	279.3	0 RUNNING	242	224
9/5/2018 14:25	133.85	0.2	2.3	267.3	560	424	279.66	0 RUNNING	242	224
9/5/2018 14:25	132.24	0.21	2.4	267.5	560	425	274.86	0 RUNNING	242	224
9/5/2018 14:25	132.15	0.21	2.4	267.5	560	424	274.82	0 RUNNING	242	224
9/5/2018 14:25	133.94	0.21	2.3	267.4	560	423	279.42	0 RUNNING	242	224
9/5/2018 14:25	134.09	0.2	2.3	267.5	560	424	277.3	0 RUNNING	242	224
9/5/2018 14:25	135.03	0.21	2.4	267.5	560	423	279.08	0 RUNNING	242	224
9/5/2018 14:25	134.95	0.21	2.4	267.7	560	424	279.1	0 RUNNING	242	224
9/5/2018 14:25	133.09	0.21	2.4	267.6	560	424	277.25	0 RUNNING	242	224
9/5/2018 14:25	133.33	0.21	2.4	267.8	560	426	273.78	0 RUNNING	242	224
9/5/2018 14:25	133.53	0.21	2.4	267.6	560	428	278.64	0 RUNNING	242	224
9/5/2018 14:25	135.66	0.2	2.3	267.3	560	428	280.66	0 RUNNING	242	224
9/5/2018 14:25	133.16	0.2	2.3	267.4	560	431	276.94	0 RUNNING	242	224
9/5/2018 14:25	132.03	0.21	2.3	267.5	560	430	274.41	0 RUNNING	242	224
9/5/2018 14:25	134.31	0.21	2.4	267.7	560	430	277.95	0 RUNNING	242	224
9/5/2018 14:25	134.42	0.2	2.3	267.4	560	430	279.94	0 RUNNING	242	224
9/5/2018 14:25	135.14	0.2	2.3	267.5	560	429	281.32	0 RUNNING	242	224
9/5/2018 14:25	132.25	0.2	2.3	267.4	560	427	275.63	0 RUNNING	242	224
9/5/2018 14:25	132.54	0.21	2.4	267.5	560	428	274.96	0 RUNNING	242	224
9/5/2018 14:25	134.36	0.2	2.3	267.3	560	430	278.65	0 RUNNING	242	224
9/5/2018 14:25	134.33	0.21	2.4	267.6	560	429	279.27	0 RUNNING	242	224
9/5/2018 14:25	135.03	0.2	2.3	267.3	560	433	278.84	0 RUNNING	242	224
9/5/2018 14:25	133.3	0.2	2.3	267.3	560	434	278.48	0 RUNNING	242	224

9/5/2018 14:25	131.73	0.2	2.3	267.3	560	435	270.95	0 RUNNING	242	224
9/5/2018 14:25	134.37	0.2	2.3	267.2	560	438	278.59	0 RUNNING	242	224
9/5/2018 14:25	133.82	0.2	2.2	267.1	560	437	278.33	0 RUNNING	242	224
9/5/2018 14:25	133.54	0.2	2.3	267.2	560	437	279.46	0 RUNNING	242	224
9/5/2018 14:25	132.61	0.2	2.3	267.2	560	437	273.76	0 RUNNING	242	224
9/5/2018 14:25	133.55	0.2	2.2	267	560	435	278.12	0 RUNNING	242	224
9/5/2018 14:25	133.56	0.2	2.3	267.2	560	434	276.67	0 RUNNING	242	224
9/5/2018 14:25	134.58	0.21	2.4	267.6	560	436	279.82	0 RUNNING	242	224
9/5/2018 14:25	134.47	0.21	2.4	267.6	560	436	277.59	0 RUNNING	242	224
9/5/2018 14:25	132.51	0.21	2.4	267.5	560	439	274.5	0 RUNNING	242	224
9/5/2018 14:25	133.32	0.2	2.3	265.9	560	441	278.09	0 RUNNING	242	224
9/5/2018 14:25	135.26	0.21	2.4	266.3	560	443	279.34	0 RUNNING	242	224
9/5/2018 14:25	135.94	0.21	2.4	266.2	560	445	280.11	0 RUNNING	242	224
9/5/2018 14:25	133.84	0.2	2.4	266.1	560	445	280.54	0 RUNNING	242	224
9/5/2018 14:25	132.07	0.21	2.4	266.3	560	446	274.33	0 RUNNING	242	224
9/5/2018 14:25	132.41	0.21	2.4	266.1	560	446	273.59	0 RUNNING	242	224
9/5/2018 14:25	135.51	0.2	2.3	265.9	560	444	280.72	0 RUNNING	242	224
9/5/2018 14:25	134.71	0.2	2.2	265.7	560	444	280.61	0 RUNNING	242	224
9/5/2018 14:25	132.82	0.21	2.3	266	560	444	275.42	0 RUNNING	242	224
9/5/2018 14:25	132.01	0.2	2.3	265.9	560	444	274.02	0 RUNNING	242	224
9/5/2018 14:25	134.03	0.2	2.3	267.2	560	445	280.9	0 RUNNING	242	224
9/5/2018 14:25	134.49	0.21	2.4	267.6	560	447	277.32	0 RUNNING	242	224
9/5/2018 14:25	133.56	0.21	2.3	267.4	560	448	277.58	0 RUNNING	242	224
9/5/2018 14:25	132.58	0.2	2.3	267.2	560	450	276.57	0 RUNNING	242	224
9/5/2018 14:25	131.78	0.2	2.3	267.2	560	452	274.62	0 RUNNING	242	224
9/5/2018 14:25	134	0.2	2.3	267.2	560	453	278.98	0 RUNNING	242	224
9/5/2018 14:25	135.47	0.2	2.3	267.2	560	455	281.58	0 RUNNING	242	224
9/5/2018 14:25	133.99	0.2	2.3	267.3	560	454	277.71	0 RUNNING	242	224
9/5/2018 14:25	131.8	0.2	2.2	267.1	560	452	274.15	0 RUNNING	242	224
9/5/2018 14:25	134.09	0.21	2.4	267.5	560	450	277.64	0 RUNNING	242	224
9/5/2018 14:25	134.25	0.21	2.4	267.5	560	449	277.05	0 RUNNING	242	224
9/5/2018 14:25	135.31	0.21	2.3	267.4	560	448	283.67	0 RUNNING	242	224
9/5/2018 14:26	133.25	0.2	2.3	267.4	560	447	276.64	0 RUNNING	242	224
9/5/2018 14:26	132.95	0.21	2.3	267.5	560	450	274.98	0 RUNNING	242	224
9/5/2018 14:26	133.99	0.21	2.4	267.7	560	449	279.92	0 RUNNING	242	224
9/5/2018 14:26	135.05	0.2	2.3	267.2	560	451	280.84	0 RUNNING	242	224
9/5/2018 14:26	132.93	0.2	2.3	267.2	560	451	278.89	0 RUNNING	242	224
9/5/2018 14:26	132.37	0.2	2.3	267.3	560	453	274.19	0 RUNNING	242	224
9/5/2018 14:26	132.43	0.2	2.2	267.1	560	451	276.82	0 RUNNING	242	224
9/5/2018 14:26	134.54	0.2	2.3	267.3	560	450	278.23	0 RUNNING	242	224
9/5/2018 14:26	135.71	0.2	2.3	265.9	560	449	281.49	0 RUNNING	242	224
9/5/2018 14:26	133.6	0.21	2.3	266.1	560	448	278.23	0 RUNNING	242	224
9/5/2018 14:26	131.8	0.2	2.3	265.9	560	446	273.08	0 RUNNING	242	224
9/5/2018 14:26	132.51	0.21	2.4	266.1	560	444	276.24	0 RUNNING	242	224
9/5/2018 14:26	134.3	0.21	2.4	266.1	560	445	277.59	0 RUNNING	242	224
9/5/2018 14:26	134.75	0.21	2.4	266.2	560	445	281.6	0 RUNNING	242	224
9/5/2018 14:26	132.62	0.21	2.3	266	560	446	275.27	0 RUNNING	242	224
9/5/2018 14:26	131.69	0.2	2.3	265.8	560	448	274.1	0 RUNNING	242	224
9/5/2018 14:26	133.91	0.2	2.3	265.8	560	451	277.95	0 RUNNING	242	224
9/5/2018 14:26	134.63	0.2	2.3	265.7	560	452	280.76	0 RUNNING	242	224
9/5/2018 14:26	134	0.21	2.3	266	560	451	277.64	0 RUNNING	242	224
9/5/2018 14:26	132.23	0.2	2.3	267.3	560	452	275.68	0 RUNNING	242	224
9/5/2018 14:26	132.61	0.2	2.3	267.2	560	450	275.33	0 RUNNING	242	224
9/5/2018 14:26	135.55	0.21	2.3	267.5	560	448	282.35	0 RUNNING	242	224
9/5/2018 14:26	134.08	0.2	2.3	267.4	560	447	278.98	0 RUNNING	242	224
9/5/2018 14:26	132.26	0.21	2.3	267.4	560	445	275.42	0 RUNNING	242	224
9/5/2018 14:26	132.86	0.21	2.4	267.5	560	446	276.57	0 RUNNING	242	224
9/5/2018 14:26	133.35	0.2	2.3	267.4	560	447	277.27	0 RUNNING	242	224
9/5/2018 14:26	135.96	0.2	2.3	267.3	560	449	282.16	0 RUNNING	242	224
9/5/2018 14:26	134.48	0.21	2.3	267.4	560	449	279.73	0 RUNNING	242	224
9/5/2018 14:26	132.14	0.21	2.4	267.6	560	450	274.99	0 RUNNING	242	224
9/5/2018 14:26	132.52	0.21	2.4	266.2	560	451	275.83	0 RUNNING	242	224
9/5/2018 14:26	132.64	0.2	2.3	265.8	560	451	275.56	0 RUNNING	242	224
9/5/2018 14:26	134.82	0.2	2.3	265.9	560	450	275.52	0 RUNNING	242	224
9/5/2018 14:26	135.3	0.21	2.4	266.1	560	447	283.12	0 RUNNING	242	224

9/5/2018 14:26	131.79	0.21	2.4	266.1	560	446	273.18	0 RUNNING	242	224
9/5/2018 14:26	132.77	0.21	2.4	266.4	560	443	275.78	0 RUNNING	242	224
9/5/2018 14:26	134.66	0.21	2.4	266.1	560	442	280.79	0 RUNNING	242	224
9/5/2018 14:26	134.75	0.2	2.3	265.9	560	440	280.28	0 RUNNING	242	224
9/5/2018 14:26	131.23	0.2	2.3	265.7	560	440	273.71	0 RUNNING	242	224
9/5/2018 14:26	132.61	0.21	2.4	266.2	560	441	275.95	0 RUNNING	242	224
9/5/2018 14:26	135.92	0.2	2.3	265.9	560	441	283.05	0 RUNNING	242	224
9/5/2018 14:26	132.77	0.21	2.4	266.1	560	442	274.67	0 RUNNING	242	224
9/5/2018 14:26	131.98	0.2	2.3	265.8	560	444	275.33	0 RUNNING	242	224
9/5/2018 14:26	132.58	0.19	2.2	265.4	560	442	277.34	0 RUNNING	242	224
9/5/2018 14:26	135.72	0.2	2.3	265.9	560	440	284.15	0 RUNNING	242	224
9/5/2018 14:26	133.97	0.2	2.3	265.8	560	438	277.59	0 RUNNING	242	224
9/5/2018 14:26	132.85	0.21	2.4	266.1	560	436	275.39	0 RUNNING	242	224
9/5/2018 14:26	133.04	0.21	2.3	266	560	432	277.78	0 RUNNING	242	224
9/5/2018 14:26	135	0.21	2.3	266.1	560	431	279.27	0 RUNNING	242	224
9/5/2018 14:26	134.59	0.2	2.3	265.8	560	429	282.03	0 RUNNING	242	224
9/5/2018 14:26	133.47	0.21	2.4	266.2	560	429	277.03	0 RUNNING	242	224
9/5/2018 14:26	131.53	0.21	2.4	266.3	560	429	274.17	0 RUNNING	242	224
9/5/2018 14:26	132.32	0.21	2.4	266.1	560	429	275.95	0 RUNNING	242	224
9/5/2018 14:26	133.98	0.21	2.3	266	560	432	279.15	0 RUNNING	242	224
9/5/2018 14:26	135.13	0.21	2.4	266.3	560	431	280.76	0 RUNNING	242	224
9/5/2018 14:26	133.3	0.21	2.4	266.2	560	429	278.45	0 RUNNING	242	224
9/5/2018 14:26	131.87	0.22	2.5	266.7	560	428	273.02	0 RUNNING	242	224
9/5/2018 14:26	132.74	0.2	2.3	266	560	426	277.11	0 RUNNING	242	224
9/5/2018 14:26	134.92	0.21	2.4	266.3	560	426	278.26	0 RUNNING	242	224
9/5/2018 14:26	135.05	0.2	2.3	265.9	560	422	283.82	0 RUNNING	242	224
9/5/2018 14:26	132.21	0.2	2.3	265.9	560	419	274.55	0 RUNNING	242	224
9/5/2018 14:27	133.22	0.21	2.4	266.1	560	420	277.27	0 RUNNING	242	224
9/5/2018 14:27	134.81	0.2	2.3	265.9	560	416	281.02	0 RUNNING	242	224
9/5/2018 14:27	135.44	0.2	2.3	265.9	560	419	281.41	0 RUNNING	242	224
9/5/2018 14:27	134.31	0.2	2.3	266	560	418	279.15	0 RUNNING	242	224
9/5/2018 14:27	131.81	0.2	2.3	265.8	560	417	276.76	0 RUNNING	242	224
9/5/2018 14:27	132.85	0.2	2.3	265.9	560	417	275.11	0 RUNNING	242	224
9/5/2018 14:27	135.13	0.21	2.4	266.2	560	418	282.28	0 RUNNING	242	224
9/5/2018 14:27	132.79	0.21	2.4	266.3	560	415	276.33	0 RUNNING	242	224
9/5/2018 14:27	131.54	0.2	2.3	266	560	413	274.46	0 RUNNING	242	224
9/5/2018 14:27	133.48	0.2	2.3	265.8	560	413	276.14	0 RUNNING	242	224
9/5/2018 14:27	135.59	0.21	2.3	266	560	408	283.19	0 RUNNING	242	224
9/5/2018 14:27	132.54	0.21	2.4	266.2	560	406	275.49	0 RUNNING	242	224
9/5/2018 14:27	132.03	0.2	2.3	266	560	405	272.92	0 RUNNING	242	224
9/5/2018 14:27	133.17	0.21	2.4	266.1	560	403	277.7	0 RUNNING	242	224
9/5/2018 14:27	133.84	0.21	2.4	266.1	560	401	277.92	0 RUNNING	242	224
9/5/2018 14:27	134.37	0.21	2.4	266.1	560	403	279.77	0 RUNNING	242	224
9/5/2018 14:27	132.75	0.2	2.4	266	560	401	276.82	0 RUNNING	242	224
9/5/2018 14:27	133.55	0.2	2.3	265.9	560	400	280.14	0 RUNNING	242	224
9/5/2018 14:27	134.93	0.2	2.4	266.1	560	399	278.79	0 RUNNING	242	224
9/5/2018 14:27	135.85	0.21	2.4	266.3	560	398	283.75	0 RUNNING	242	224
9/5/2018 14:27	132.6	0.21	2.4	266.3	560	394	276.28	0 RUNNING	242	224
9/5/2018 14:27	132.56	0.2	2.3	266	560	392	274.44	0 RUNNING	242	224
9/5/2018 14:27	132.25	0.2	2.3	266	560	386	276.82	0 RUNNING	242	224
9/5/2018 14:27	133.69	0.21	2.5	266.4	560	383	279.94	0 RUNNING	242	224
9/5/2018 14:27	134.93	0.21	2.4	266.3	560	381	279.92	0 RUNNING	242	224
9/5/2018 14:27	131.5	0.21	2.4	266.3	560	380	273.28	0 RUNNING	242	224
9/5/2018 14:27	133.4	0.21	2.4	266.2	560	377	277.17	0 RUNNING	242	224
9/5/2018 14:27	134.48	0.21	2.5	266.4	560	378	280.23	0 RUNNING	242	224
9/5/2018 14:27	134.01	0.21	2.4	266.4	560	379	276.21	0 RUNNING	242	224
9/5/2018 14:27	132.73	0.2	2.4	266.2	560	376	275.85	0 RUNNING	242	224
9/5/2018 14:27	132.7	0.21	2.4	266.2	560	375	277.23	0 RUNNING	242	224
9/5/2018 14:27	133.98	0.21	2.5	266.5	560	373	278.86	0 RUNNING	242	224
9/5/2018 14:27	133.98	0.21	2.5	266.5	560	371	280.4	0 RUNNING	242	224
9/5/2018 14:27	134.95	0.2	2.3	265.9	560	371	280.4	0 RUNNING	242	224
9/5/2018 14:27	96.23	0.21	2.2	265.7	560	363	272.39	0 RUNNING	242	224
9/5/2018 14:27	115.35	0.21	2.1	265.3	560	327	317.09	0 RUNNING	242	224
9/5/2018 14:27	119.3	0.21	2.1	265.2	560	326	314.69	0 RUNNING	242	224
9/5/2018 14:27	125.24	0.21	2.2	265.8	560	329	317.55	0 RUNNING	242	224

9/5/2018 14:27	130.24	0.21	2.3	266.1	560	334	317.91	0	RUNNING	242	224
9/5/2018 14:27	133.74	0.21	2.4	266.3	560	340	322.36	0	RUNNING	242	224
9/5/2018 14:27	128.37	0.22	2.5	266.5	560	341	307.68	0	RUNNING	242	224
9/5/2018 14:27	118.24	0.21	2.2	265.7	560	343	283.8	0	RUNNING	242	224
9/5/2018 14:27	120.31	0.22	2.3	265.9	560	347	278.53	0	RUNNING	242	224
9/5/2018 14:27	123.98	0.21	2.3	265.8	560	352	277.22	0	RUNNING	242	224
9/5/2018 14:27	125.51	0.21	2.3	266	560	356	271.35	0	RUNNING	242	224
9/5/2018 14:27	134.38	0.21	2.4	266.3	560	362	281.22	0	RUNNING	242	224
9/5/2018 14:27	134.03	0.2	2.4	266.2	560	363	277.78	0	RUNNING	242	224
9/5/2018 14:27	132.42	0.21	2.5	266.6	560	359	277.59	0	RUNNING	242	224
9/5/2018 14:27	132.7	0.21	2.5	266.5	560	357	273.56	0	RUNNING	242	224
9/5/2018 14:27	134.56	0.2	2.4	266.2	560	354	279.56	0	RUNNING	242	224
9/5/2018 14:27	135.08	0.2	2.4	267.6	560	354	279.27	0	RUNNING	242	224
9/5/2018 14:27	132.25	0.2	2.4	267.7	560	351	276.5	0	RUNNING	242	224
9/5/2018 14:27	133.41	0.2	2.4	267.5	560	352	274.87	0	RUNNING	242	224
9/5/2018 14:27	134.73	0.2	2.3	267.4	560	353	280.02	0	RUNNING	242	224
9/5/2018 14:27	135.18	0.2	2.4	267.6	560	351	282.32	0	RUNNING	242	224
9/5/2018 14:27	131.83	0.2	2.4	267.6	560	350	275.56	0	RUNNING	242	224
9/5/2018 14:27	131.15	0.2	2.3	267.4	560	350	270.39	0	RUNNING	242	224
9/5/2018 14:27	133.22	0.21	2.5	267.8	560	346	277.25	0	RUNNING	242	224
9/5/2018 14:27	134.82	0.2	2.4	267.6	560	344	280.18	0	RUNNING	242	224
9/5/2018 14:28	132.63	0.2	2.4	267.7	560	341	275.23	0	RUNNING	242	224
9/5/2018 14:28	132.88	0.2	2.4	266.3	560	339	274.46	0	RUNNING	242	224
9/5/2018 14:28	133.35	0.21	2.5	266.5	560	335	276.72	0	RUNNING	242	224
9/5/2018 14:28	135.61	0.2	2.5	266.4	560	333	282.01	0	RUNNING	242	224
9/5/2018 14:28	133.68	0.2	2.5	266.4	560	332	277.32	0	RUNNING	242	224
9/5/2018 14:28	131.34	0.2	2.4	266.1	560	331	273.18	0	RUNNING	242	224
9/5/2018 14:28	132.73	0.2	2.4	266.2	560	330	273.66	0	RUNNING	242	224
9/5/2018 14:28	135.98	0.2	2.4	266.2	560	330	284.06	0	RUNNING	242	224
9/5/2018 14:28	107.73	0.21	2.1	265.3	560	305	302.37	0	RUNNING	242	224
9/5/2018 14:28	115.56	0.2	2.1	265.2	560	271	311	0	RUNNING	242	224
9/5/2018 14:28	118.64	0.21	2.2	265.8	560	281	306.65	0	RUNNING	242	224
9/5/2018 14:28	126.24	0.21	2.3	266	560	290	313.89	0	RUNNING	242	224
9/5/2018 14:28	133.19	0.21	2.4	266.3	560	298	321.21	0	RUNNING	242	224
9/5/2018 14:28	133.44	0.21	2.5	266.5	560	301	323.08	0	RUNNING	242	224
9/5/2018 14:28	129.95	0.2	2.4	266	560	297	312.57	0	RUNNING	242	224
9/5/2018 14:28	134.04	0.2	2.4	266.1	560	298	317.19	0	RUNNING	242	224
9/5/2018 14:28	134.1	0.21	2.4	266.2	560	298	319.69	0	RUNNING	242	224
9/5/2018 14:28	135.35	0.2	2.4	266	560	298	320.73	0	RUNNING	242	224
9/5/2018 14:28	130.86	0.2	2.4	266.1	560	301	310.86	0	RUNNING	242	224
9/5/2018 14:28	132.8	0.2	2.4	266.1	560	301	313.66	0	RUNNING	242	224
9/5/2018 14:28	134.13	0.2	2.3	265.8	560	300	320.78	0	RUNNING	242	224
9/5/2018 14:28	130.82	0.2	2.3	265.9	560	295	317.58	0	RUNNING	242	224
9/5/2018 14:28	132.23	0.2	2.3	265.9	560	296	316.95	0	RUNNING	242	224
9/5/2018 14:28	133.85	0.2	2.3	265.9	560	298	313.15	0	RUNNING	242	224
9/5/2018 14:28	134.86	0.2	2.4	266.2	560	295	319.74	0	RUNNING	242	224
9/5/2018 14:28	130.93	0.2	2.4	266.1	560	290	315.94	0	RUNNING	242	224
9/5/2018 14:28	127.93	0.2	2.3	266	560	288	305.3	0	RUNNING	242	224
9/5/2018 14:28	133.29	0.2	2.3	266	560	287	315.22	0	RUNNING	242	224
9/5/2018 14:28	133.31	0.21	2.5	266.3	560	288	317	0	RUNNING	242	224
9/5/2018 14:28	128.92	0.21	2.4	266.3	560	287	314.2	0	RUNNING	242	224
9/5/2018 14:28	129.63	0.2	2.4	266.2	560	283	309.75	0	RUNNING	242	224
9/5/2018 14:28	120.09	0.2	2.3	265.9	560	287	283.09	0	RUNNING	242	224
9/5/2018 14:28	121.97	0.21	2.3	265.8	560	286	277.51	0	RUNNING	242	224
9/5/2018 14:28	125.57	0.21	2.3	266	560	294	276.1	0	RUNNING	242	224
9/5/2018 14:28	127.4	0.2	2.3	265.9	560	302	271.01	0	RUNNING	242	224
9/5/2018 14:28	134.21	0.2	2.4	266.1	560	307	278.02	0	RUNNING	242	224
9/5/2018 14:28	135.36	0.19	2.4	266	560	306	278.07	0	RUNNING	242	224
9/5/2018 14:28	132.23	0.2	2.4	266.2	560	303	273.28	0	RUNNING	242	224
9/5/2018 14:28	132.47	0.19	2.4	266.1	560	300	274.19	0	RUNNING	242	224
9/5/2018 14:28	133.32	0.19	2.4	266.1	560	297	276.16	0	RUNNING	242	224
9/5/2018 14:28	135.67	0.19	2.3	265.9	560	297	280.3	0	RUNNING	242	224
9/5/2018 14:28	132.79	0.19	2.3	265.7	560	296	275.42	0	RUNNING	242	224
9/5/2018 14:28	107.79	0.2	2	265.1	560	266	302.27	0	RUNNING	242	224
9/5/2018 14:30	130.05	0	0	-999	560	1	370.44	0	BUMPING	0	0

9/5/2018 14:30	130.5	0	0	-999	560	125	372.85	0 BUMPING	0	0
9/5/2018 14:30	129.21	0	0	-999	560	92	369.19	0 BUMPING	0	0
9/5/2018 14:30	133.99	0.09	1.1	260.9	560	87	370.03	0 RUNNING	0	0
9/5/2018 14:30	131.23	0.09	1.1	260.9	560	95	353.86	0 RUNNING	0	0
9/5/2018 14:30	125.51	0.1	1.1	261.3	560	112	325.03	0 RUNNING	0	0
9/5/2018 14:32	0	0	0	0	0	0	0	0 None	0	0
9/5/2018 14:32	0	0	0	0	0	0	0	0 None	0	0
9/5/2018 14:32	0	0	0	0	0	0	0	0 None	0	0
9/5/2018 14:32	130.44	0	0	-999	560	1	372	0 BUMPING	0	0
9/5/2018 14:32	130.01	0	0	-999	560	106	371.47	0 BUMPING	0	0
9/5/2018 14:32	131.59	0	0	-999	560	1	375.98	0 BUMPING	0	0
9/5/2018 14:32	130.05	0	0	-999	560	2	370.36	0 BUMPING	0	0
9/5/2018 14:32	124.09	0	0	-999	560	23	354.54	0 BUMPING	0	0
9/5/2018 14:32	121.03	0	0	-999	560	103	345.8	0 BUMPING	0	0
9/5/2018 14:32	120.57	0	0	-999	560	138	344.48	0 BUMPING	0	0
9/5/2018 14:32	103.31	0	0	-999	560	67	294.88	0 BUMPING	0	0
9/5/2018 14:32	101.08	0	0	-999	560	3	288.82	0 BUMPING	0	0
9/5/2018 14:33	21.63	0	0	-999	560	1	337.5	0 BUMPING	0	0
9/5/2018 14:33	23.07	0	0	-999	560	2	290.7	0 BUMPING	0	0
9/5/2018 14:33	18.39	0	0	-999	560	31	293.9	0 BUMPING	0	0
9/5/2018 14:33	22.32	0	0	-999	560	30	286.63	0 BUMPING	0	0
9/5/2018 14:33	20.92	0	0	-999	560	1	336.68	0 BUMPING	0	0
9/5/2018 14:33	26.35	0	0	-999	560	1	342.29	0 BUMPING	0	0
9/5/2018 14:33	31.83	0	0	-999	560	1	344.86	0 BUMPING	0	0
9/5/2018 14:33	36.76	0	0	-999	560	16	342.48	0 BUMPING	0	0
9/5/2018 14:33	42.18	0	0	-999	560	56	344.09	0 BUMPING	0	0
9/5/2018 14:33	47.37	0	0	-999	560	40	343.58	0 BUMPING	0	0
9/5/2018 14:33	52.72	0	0	-999	560	1	344.14	0 BUMPING	0	0
9/5/2018 14:33	57.18	0	0	-999	560	7	340.8	0 BUMPING	0	0
9/5/2018 14:33	63.39	0	0	-999	560	49	345.47	0 BUMPING	0	0
9/5/2018 14:33	68.79	0	0	-999	560	109	346.02	0 BUMPING	0	0
9/5/2018 14:33	73.84	0	0	-999	560	80	344.62	0 BUMPING	0	0
9/5/2018 14:33	77.87	0	0	-999	560	2	339.93	0 BUMPING	0	0
9/5/2018 14:33	84.85	0	0	-999	560	8	347.2	0 BUMPING	0	0
9/5/2018 14:33	77.43	0	0	-999	560	29	297.77	0 BUMPING	0	0
9/5/2018 14:33	79.46	0	0	-999	560	94	289.28	0 BUMPING	0	0
9/5/2018 14:33	84.35	0	0	-999	560	99	290.87	0 BUMPING	255	224
9/5/2018 14:33	88.57	0	0	-999	560	50	290.12	0 BUMPING	255	224
9/5/2018 14:33	93.32	0	0	-999	560	3	291.85	0 BUMPING	255	224
9/5/2018 14:33	97.18	0	0	-999	560	13	289.59	0 BUMPING	255	224
9/5/2018 14:33	102.01	0	0	-999	560	49	291.47	0 BUMPING	255	224
9/5/2018 14:33	101.55	0	0	-999	560	121	291.04	0 BUMPING	255	224
9/5/2018 14:33	101.84	0	0	-999	560	103	291.32	0 BUMPING	255	224
9/5/2018 14:33	101.42	0	0	-999	560	2	289.79	0 BUMPING	255	224
9/5/2018 14:33	101.31	0	0	-999	560	7	289.47	0 BUMPING	255	224
9/5/2018 14:33	101.9	0	0	-999	560	23	292.65	0 BUMPING	255	224
9/5/2018 14:33	101.77	0	0	-999	560	110	290.79	0 BUMPING	242	224
9/5/2018 14:33	101.85	0	0	-999	560	112	291.01	0 BUMPING	242	224
9/5/2018 14:33	102.39	0	0	-999	560	54	292.26	0 BUMPING	242	224
9/5/2018 14:33	101.73	0	0	-999	560	4	290.67	0 BUMPING	242	224
9/5/2018 14:33	101.99	0	0	-999	560	13	291.42	0 BUMPING	242	224
9/5/2018 14:33	100.99	0	0	-999	560	48	288.99	0 BUMPING	242	224
9/5/2018 14:33	101.97	0	0	-999	560	117	291.35	0 BUMPING	242	224
9/5/2018 14:33	101.01	0	0	-999	560	97	288.61	0 BUMPING	242	224
9/5/2018 14:33	102.27	0	0	-999	560	2	292.21	0 BUMPING	242	224
9/5/2018 14:33	100.96	0	0	-999	560	6	288.78	0 BUMPING	242	224
9/5/2018 14:33	102.05	0	0	-999	560	24	291.57	0 BUMPING	242	224
9/5/2018 14:33	101.81	0	0	-999	560	105	290.91	0 BUMPING	242	224
9/5/2018 14:33	101.28	0	0	-999	560	109	289.91	0 BUMPING	242	224
9/5/2018 14:33	101.32	0	0	-999	560	54	289.49	0 BUMPING	242	224
9/5/2018 14:33	100.88	0	0	-999	560	4	288.24	0 BUMPING	242	224
9/5/2018 14:33	101.76	0	0	-999	560	11	290.51	0 BUMPING	242	224
9/5/2018 14:33	100.75	0	0	-999	560	45	287.54	0 BUMPING	242	224
9/5/2018 14:33	100.9	0	0	-999	560	115	288.31	0 BUMPING	242	224
9/5/2018 14:33	101.51	0	0	-999	560	96	290.05	0 BUMPING	242	224

9/5/2018 14:33	101.14	0	0	-999	560	2	288.99	0 BUMPING	242	224
9/5/2018 14:33	100.96	0	0	-999	560	6	288.48	0 BUMPING	242	224
9/5/2018 14:33	101.44	0	0	-999	560	23	289.83	0 BUMPING	242	224
9/5/2018 14:33	101.4	0	0	-999	560	104	289.73	0 BUMPING	242	224
9/5/2018 14:33	100.92	0	0	-999	560	106	288.36	0 BUMPING	242	224
9/5/2018 14:33	101.39	0	0	-999	560	44	289.69	0 BUMPING	242	224
9/5/2018 14:33	101.04	0	0	-999	560	2	288.68	0 BUMPING	242	224
9/5/2018 14:33	102.51	0	0	-999	560	12	292.91	0 BUMPING	242	224
9/5/2018 14:33	101.58	0	0	-999	560	50	290.24	0 BUMPING	242	224
9/5/2018 14:33	101.77	0	0	-999	560	124	290.77	0 BUMPING	242	224
9/5/2018 14:33	101.48	0	0	-999	560	94	289.06	0 BUMPING	242	224
9/5/2018 14:33	101.95	0	0	-999	560	1	290.74	0 BUMPING	242	224
9/5/2018 14:34	101.37	0	0	-999	560	5	289.64	0 BUMPING	242	224
9/5/2018 14:34	101.63	0	0	-999	560	21	290.39	0 BUMPING	242	224
9/5/2018 14:34	101.27	0	0	-999	560	101	289.09	0 BUMPING	242	224
9/5/2018 14:34	101.8	0	0	-999	560	107	290.58	0 BUMPING	242	224
9/5/2018 14:34	101.98	0	0	-999	560	44	291.37	0 BUMPING	242	224
9/5/2018 14:34	101.21	0	0	-999	560	2	288.99	0 BUMPING	242	224
9/5/2018 14:34	101.64	0	0	-999	560	11	290.41	0 BUMPING	242	224
9/5/2018 14:34	101.5	0	0	-999	560	49	290.02	0 BUMPING	242	224
9/5/2018 14:34	102.14	0	0	-999	560	122	291.32	0 BUMPING	242	224
9/5/2018 14:34	101.19	0	0	-999	560	89	289.13	0 BUMPING	242	224
9/5/2018 14:34	101.47	0	0	-999	560	1	289.93	0 BUMPING	242	224
9/5/2018 14:34	101.69	0	0	-999	560	5	290.97	0 BUMPING	242	224
9/5/2018 14:34	101.26	0	0	-999	560	24	289.33	0 BUMPING	242	224
9/5/2018 14:34	101.41	0	0	-999	560	116	289.74	0 BUMPING	242	224
9/5/2018 14:34	101.48	0	0	-999	560	105	289.97	0 BUMPING	242	224
9/5/2018 14:34	101.8	0	0	-999	560	44	290.38	0 BUMPING	242	224
9/5/2018 14:34	101.39	0	0	-999	560	2	289.71	0 BUMPING	242	224
9/5/2018 14:34	101.39	0	0	-999	560	10	289.69	0 BUMPING	242	224
9/5/2018 14:34	101.23	0	0	-999	560	45	289.23	0 BUMPING	242	224
9/5/2018 14:34	101.48	0	0	-999	560	119	290.68	0 BUMPING	242	224
9/5/2018 14:34	100.8	0	0	-999	560	90	288.01	0 BUMPING	242	224
9/5/2018 14:34	101.24	0	0	-999	560	1	289.26	0 BUMPING	242	224
9/5/2018 14:34	101.78	0	0	-999	560	3	291.78	0 BUMPING	242	224
9/5/2018 14:34	101.97	0	0	-999	560	22	291.35	0 BUMPING	242	224
9/5/2018 14:34	101.35	0	0	-999	560	112	289.57	0 BUMPING	242	224
9/5/2018 14:34	102.02	0	0	-999	560	104	291.49	0 BUMPING	242	224
9/5/2018 14:34	100.92	0	0	-999	560	32	288.36	0 BUMPING	242	224
9/5/2018 14:34	102.57	0	0	-999	560	1	292.89	0 BUMPING	242	224
9/5/2018 14:34	100.8	0	0	-999	560	9	288	0 BUMPING	242	224
9/5/2018 14:34	102.48	0	0	-999	560	45	292.55	0 BUMPING	242	224
9/5/2018 14:34	101.06	0	0	-999	560	117	288.75	0 BUMPING	242	224
9/5/2018 14:34	102	0	0	-999	560	89	291.44	0 BUMPING	242	224
9/5/2018 14:34	100.86	0	0	-999	560	1	288.48	0 BUMPING	242	224
9/5/2018 14:34	101.63	0	0	-999	560	4	290.39	0 BUMPING	242	224
9/5/2018 14:34	101.98	0	0	-999	560	21	291.37	0 BUMPING	242	224
9/5/2018 14:34	101.34	0	0	-999	560	111	290.17	0 BUMPING	242	224
9/5/2018 14:34	101.9	0	0	-999	560	101	291.15	0 BUMPING	242	224
9/5/2018 14:34	101.01	0	0	-999	560	32	288.61	0 BUMPING	242	224
9/5/2018 14:34	101.38	0	0	-999	560	1	289.35	0 BUMPING	242	224
9/5/2018 14:34	101.74	0	0	-999	560	9	290.68	0 BUMPING	242	224
9/5/2018 14:34	101.87	0	0	-999	560	52	291.08	0 BUMPING	242	224
9/5/2018 14:34	102.02	0	0	-999	560	112	291.51	0 BUMPING	242	224
9/5/2018 14:34	101.14	0	0	-999	560	88	288.82	0 BUMPING	242	224
9/5/2018 14:34	101.95	0	0	-999	560	1	291.3	0 BUMPING	242	224
9/5/2018 14:34	101.08	0	0	-999	560	3	288.8	0 BUMPING	242	224
9/5/2018 14:34	102.23	0	0	-999	560	19	292.51	0 BUMPING	242	224
9/5/2018 14:34	100.96	0	0	-999	560	110	288.46	0 BUMPING	242	224
9/5/2018 14:34	101.99	0	0	-999	560	101	291.42	0 BUMPING	242	224
9/5/2018 14:34	98.36	0	0	-999	560	32	290.55	0 BUMPING	242	224
9/5/2018 14:34	101.68	0	0	-999	560	1	290.63	0 BUMPING	242	224
9/5/2018 14:34	101.79	0	0	-999	560	9	290.84	0 BUMPING	242	224
9/5/2018 14:34	101.7	0	0	-999	560	49	290.58	0 BUMPING	242	224
9/5/2018 14:34	101.44	0	0	-999	560	114	290.22	0 BUMPING	242	224

9/5/2018 14:34	101.33	0	0	-999	560	82	289.54	0 BUMPING	242	224
9/5/2018 14:34	102.42	0	0	-999	560	1	292.63	0 BUMPING	242	224
9/5/2018 14:34	100.98	0	0	-999	560	3	287.79	0 BUMPING	242	224
9/5/2018 14:34	101.73	0	0	-999	560	22	290.67	0 BUMPING	242	224
9/5/2018 14:34	101.72	0	0	-999	560	110	290.65	0 BUMPING	242	224
9/5/2018 14:34	101.69	0	0	-999	560	98	290.55	0 BUMPING	242	224
9/5/2018 14:35	96.91	0	0	-999	560	16	276.89	0 BUMPING	242	224
9/5/2018 14:35	101.32	0	0	-999	560	1	289.5	0 BUMPING	242	224
9/5/2018 14:35	102.2	0	0	-999	560	8	292	0 BUMPING	242	224
9/5/2018 14:35	101.08	0	0	-999	560	48	289.66	0 BUMPING	242	224
9/5/2018 14:35	101.66	0	0	-999	560	111	290.46	0 BUMPING	242	224
9/5/2018 14:35	101.01	0	0	-999	560	79	288.61	0 BUMPING	242	224
9/5/2018 14:35	101.2	0	0	-999	560	1	289.31	0 BUMPING	242	224
9/5/2018 14:35	101.11	0	0	-999	560	3	288.43	0 BUMPING	242	224
9/5/2018 14:35	101.26	0	0	-999	560	22	289.31	0 BUMPING	242	224
9/5/2018 14:35	101.22	0	0	-999	560	109	289.2	0 BUMPING	242	224
9/5/2018 14:35	100.88	0	0	-999	560	97	289.4	0 BUMPING	242	224
9/5/2018 14:35	97.11	0	0	-999	560	16	277.46	0 BUMPING	242	224
9/5/2018 14:35	100.69	0	0	-999	560	1	287.71	0 BUMPING	242	224
9/5/2018 14:35	101.6	0	0	-999	560	8	289.74	0 BUMPING	242	224
9/5/2018 14:35	101.95	0	0	-999	560	57	291.3	0 BUMPING	242	224
9/5/2018 14:35	101.01	0	0	-999	560	107	288.61	0 BUMPING	242	224
9/5/2018 14:35	102.58	0	0	-999	560	81	292.65	0 BUMPING	242	224
9/5/2018 14:35	100.66	0	0	-999	560	1	287.33	0 BUMPING	242	224
9/5/2018 14:35	101.51	0	0	-999	560	3	290.05	0 BUMPING	242	224
9/5/2018 14:35	101.47	0	0	-999	560	21	289.91	0 BUMPING	242	224
9/5/2018 14:35	101.32	0	0	-999	560	110	289.97	0 BUMPING	242	224
9/5/2018 14:35	101.31	0	0	-999	560	94	289.47	0 BUMPING	242	224
9/5/2018 14:35	98.33	0	0	-999	560	23	280.96	0 BUMPING	242	224
9/5/2018 14:35	101.51	0	0	-999	560	2	289.62	0 BUMPING	242	224
9/5/2018 14:35	101.36	0	0	-999	560	9	289.62	0 BUMPING	242	224
9/5/2018 14:35	101.57	0	0	-999	560	54	290.2	0 BUMPING	242	224
9/5/2018 14:35	100.86	0	0	-999	560	108	288.19	0 BUMPING	242	224
9/5/2018 14:35	101.4	0	0	-999	560	72	289.73	0 BUMPING	242	224
9/5/2018 14:35	101.53	0	0	-999	560	1	290.1	0 BUMPING	242	224
9/5/2018 14:35	101.82	0	0	-999	560	3	290.92	0 BUMPING	242	224
9/5/2018 14:35	101.6	0	0	-999	560	20	290.02	0 BUMPING	242	224
9/5/2018 14:35	101.5	0	0	-999	560	107	290	0 BUMPING	242	224
9/5/2018 14:35	101.56	0	0	-999	560	94	290.19	0 BUMPING	242	224
9/5/2018 14:35	96.57	0	0	-999	560	23	275.92	0 BUMPING	242	224
9/5/2018 14:35	101.65	0	0	-999	560	1	290.43	0 BUMPING	242	224
9/5/2018 14:35	101.77	0	0	-999	560	9	290.79	0 BUMPING	242	224
9/5/2018 14:35	101	0	0	-999	560	54	288.58	0 BUMPING	242	224
9/5/2018 14:35	101.63	0	0	-999	560	106	290.2	0 BUMPING	242	224
9/5/2018 14:35	101.94	0	0	-999	560	71	291.27	0 BUMPING	242	224
9/5/2018 14:35	102.04	0	0	-999	560	1	291.56	0 BUMPING	242	224
9/5/2018 14:35	101.82	0	0	-999	560	3	290.63	0 BUMPING	242	224
9/5/2018 14:35	101.59	0	0	-999	560	23	290.27	0 BUMPING	242	224
9/5/2018 14:35	101.77	0	0	-999	560	105	290.79	0 BUMPING	242	224
9/5/2018 14:35	101.71	0	0	-999	560	95	290.6	0 BUMPING	242	224
9/5/2018 14:35	101.83	0	0	-999	560	23	279.49	0 BUMPING	242	224
9/5/2018 14:35	101.96	0	0	-999	560	1	291.32	0 BUMPING	242	224
9/5/2018 14:35	102.71	0	0	-999	560	9	293.47	0 BUMPING	242	224
9/5/2018 14:35	100.97	0	0	-999	560	52	289.3	0 BUMPING	242	224
9/5/2018 14:35	101.19	0	0	-999	560	103	289.11	0 BUMPING	242	224
9/5/2018 14:35	101.78	0	0	-999	560	69	290.82	0 BUMPING	242	224
9/5/2018 14:35	101.54	0	0	-999	560	1	290.17	0 BUMPING	242	224
9/5/2018 14:35	101.62	0	0	-999	560	4	290.36	0 BUMPING	242	224
9/5/2018 14:35	101.65	0	0	-999	560	22	290.43	0 BUMPING	242	224
9/5/2018 14:35	101.89	0	0	-999	560	107	290.38	0 BUMPING	242	224
9/5/2018 14:35	101.33	0	0	-999	560	96	289.54	0 BUMPING	242	224
9/5/2018 14:35	101.83	0	0	-999	560	1	290.94	0 BUMPING	242	224
9/5/2018 14:35	101.28	0	0	-999	560	1	289.38	0 BUMPING	242	224
9/5/2018 14:35	101.62	0	0	-999	560	9	290.05	0 BUMPING	242	224
9/5/2018 14:35	101.74	0	0	-999	560	63	290.7	0 BUMPING	242	224

9/5/2018 14:36	100.95	0	0	-999	560	101	288.44	0 BUMPING	242	224
9/5/2018 14:36	101.52	0	0	-999	560	68	290.07	0 BUMPING	242	224
9/5/2018 14:36	101.39	0	0	-999	560	1	289.78	0 BUMPING	242	224
9/5/2018 14:36	102.32	0	0	-999	560	3	292.34	0 BUMPING	242	224
9/5/2018 14:36	101.8	0	0	-999	560	23	290.87	0 BUMPING	242	224
9/5/2018 14:36	100.79	0	0	-999	560	104	288.9	0 BUMPING	242	224
9/5/2018 14:36	101.57	0	0	-999	560	96	290.22	0 BUMPING	242	224
9/5/2018 14:36	100.93	0	0	-999	560	1	288.37	0 BUMPING	242	224
9/5/2018 14:36	101.44	0	0	-999	560	2	290.03	0 BUMPING	242	224
9/5/2018 14:36	101.78	0	0	-999	560	10	290.8	0 BUMPING	242	224
9/5/2018 14:36	18.26	0	0	-999	560	60	356.79	0 BUMPING	242	224
9/5/2018 14:36	22.7	0	0	-999	560	34	341.39	0 BUMPING	242	224
9/5/2018 14:36	27.79	0	0	-999	560	29	341.04	0 BUMPING	242	224
9/5/2018 14:36	33.2	0	0	-999	560	1	342.98	0 BUMPING	242	224
9/5/2018 14:36	38.04	0	0	-999	560	1	339.38	0 BUMPING	242	224
9/5/2018 14:36	44.01	0	0	-999	560	2	350.13	0 BUMPING	242	224
9/5/2018 14:36	48.67	0	0	-999	560	60	341.8	0 BUMPING	242	224
9/5/2018 14:36	18.08	0	0	-999	560	40	343.11	0 BUMPING	242	224
9/5/2018 14:36	23.05	0	0	-999	560	1	342.16	0 BUMPING	242	224
9/5/2018 14:36	28.75	0	0	-999	560	1	346.45	0 BUMPING	242	224
9/5/2018 14:36	33.92	0	0	-999	560	1	345.08	0 BUMPING	242	224
9/5/2018 14:36	39.33	0	0	-999	560	7	342.43	0 BUMPING	242	224
9/5/2018 14:36	44.07	0	0	-999	560	43	342.74	0 BUMPING	242	224
9/5/2018 14:36	49.24	0	0	-999	560	42	342.19	0 BUMPING	242	224
9/5/2018 14:36	54.67	0	0	-999	560	1	343.44	0 BUMPING	242	224
9/5/2018 14:36	59.79	0	0	-999	560	1	343.28	0 BUMPING	242	224
9/5/2018 14:36	65.25	0	0	-999	560	13	344.36	0 BUMPING	242	224
9/5/2018 14:36	69.89	0	0	-999	560	77	341.28	0 BUMPING	242	224
9/5/2018 14:36	74.75	0	0	-999	560	75	340.68	0 BUMPING	242	224
9/5/2018 14:36	80.57	0	0	-999	560	1	342.7	0 BUMPING	242	224
9/5/2018 14:36	72.13	0	0	-999	560	1	288.07	0 BUMPING	242	224
9/5/2018 14:36	76.57	0	0	-999	560	4	287.71	0 BUMPING	242	224
9/5/2018 14:36	82.03	0	0	-999	560	51	292.26	0 BUMPING	242	224
9/5/2018 14:36	86.08	0	0	-999	560	81	290.8	0 BUMPING	242	224
9/5/2018 14:36	17.67	0	0	-999	560	29	331.61	0 BUMPING	242	224
9/5/2018 14:36	23.3	0	0	-999	560	1	343.25	0 BUMPING	242	224
9/5/2018 14:36	28.96	0	0	-999	560	1	346.42	0 BUMPING	242	224
9/5/2018 14:36	33.89	0	0	-999	560	1	342.74	0 BUMPING	242	224
9/5/2018 14:36	39.24	0	0	-999	560	42	345.65	0 BUMPING	242	224
9/5/2018 14:36	44.09	0	0	-999	560	50	340.43	0 BUMPING	242	224
9/5/2018 14:36	48.95	0	0	-999	560	1	338.82	0 BUMPING	242	224
9/5/2018 14:36	54.62	0	0	-999	560	1	341.18	0 BUMPING	242	224
9/5/2018 14:36	60.28	0	0	-999	560	2	345.05	0 BUMPING	242	224
9/5/2018 14:36	64.71	0	0	-999	560	44	340.41	0 BUMPING	242	224
9/5/2018 14:36	69.89	0	0	-999	560	67	340.29	0 BUMPING	242	224
9/5/2018 14:36	74.54	0	0	-999	560	48	339.14	0 BUMPING	242	224
9/5/2018 14:36	80.19	0	0	-999	560	1	340.26	0 BUMPING	242	224
9/5/2018 14:36	84.18	0	0	-999	560	1	335.4	0 BUMPING	242	224
9/5/2018 14:36	91.59	0	0	-999	560	18	343.95	0 BUMPING	242	224
9/5/2018 14:36	96.83	0	0	-999	560	98	343.88	0 BUMPING	242	224
9/5/2018 14:36	102.01	0	0	-999	560	89	343.95	0 BUMPING	242	224
9/5/2018 14:36	106.95	0	0	-999	560	1	342.89	0 BUMPING	242	224
9/5/2018 14:36	111.52	0	0	-999	560	2	341.16	0 BUMPING	242	224
9/5/2018 14:36	116.91	0	0	-999	560	11	341.66	0 BUMPING	242	224
9/5/2018 14:36	120.28	0	0	-999	560	81	343.66	0 BUMPING	242	224
9/5/2018 14:36	120.41	0	0	-999	560	109	343.37	0 BUMPING	242	224
9/5/2018 14:36	120.36	0	0	-999	560	61	343.9	0 BUMPING	242	224
9/5/2018 14:36	120.03	0	0	-999	560	1	342.94	0 BUMPING	242	224
9/5/2018 14:36	121.07	0	0	-999	560	5	348.21	0 BUMPING	242	224
9/5/2018 14:37	120.62	0	0	-999	560	34	344.64	0 BUMPING	242	224
9/5/2018 14:37	103.22	0	0	-999	560	115	294.93	0 BUMPING	242	224
9/5/2018 14:37	100.93	0	0	-999	560	89	288.37	0 BUMPING	242	224
9/5/2018 14:37	102.31	0	0	-999	560	1	291.37	0 BUMPING	242	224
9/5/2018 14:37	101.29	0	0	-999	560	2	289.42	0 BUMPING	242	224
9/5/2018 14:37	101.47	0	0	-999	560	12	289.91	0 BUMPING	242	224

9/5/2018 14:37	101.77	0	0	-999	560	69	289.86	0 BUMPING	242	224
9/5/2018 14:37	101.66	0	0	-999	560	93	290.46	0 BUMPING	242	224
9/5/2018 14:37	101.61	0	0	-999	560	54	290.32	0 BUMPING	242	224
9/5/2018 14:37	101.14	0	0	-999	560	1	288.99	0 BUMPING	242	224
9/5/2018 14:37	101.45	0	0	-999	560	5	289.38	0 BUMPING	242	224
9/5/2018 14:37	101.23	0	0	-999	560	29	289.23	0 BUMPING	242	224
9/5/2018 14:37	101.66	0	0	-999	560	106	290.48	0 BUMPING	242	224
9/5/2018 14:37	100.81	0	0	-999	560	89	287.35	0 BUMPING	242	224
9/5/2018 14:37	101.9	0	0	-999	560	1	291.16	0 BUMPING	242	224
9/5/2018 14:37	101.56	0	0	-999	560	2	290.17	0 BUMPING	242	224
9/5/2018 14:37	100.8	0	0	-999	560	12	288.32	0 BUMPING	242	224
9/5/2018 14:37	101.55	0	0	-999	560	69	290.75	0 BUMPING	242	224
9/5/2018 14:37	101.59	0	0	-999	560	95	290.27	0 BUMPING	242	224
9/5/2018 14:37	101.07	0	0	-999	560	53	288.77	0 BUMPING	242	224
9/5/2018 14:37	101.51	0	0	-999	560	1	290.24	0 BUMPING	242	224
9/5/2018 14:37	101.37	0	0	-999	560	5	289.64	0 BUMPING	242	224
9/5/2018 14:37	101.75	0	0	-999	560	29	290.72	0 BUMPING	242	224
9/5/2018 14:37	101.89	0	0	-999	560	103	290.32	0 BUMPING	242	224
9/5/2018 14:37	100.87	0	0	-999	560	84	288.2	0 BUMPING	242	224
9/5/2018 14:37	101.47	0	0	-999	560	1	289.93	0 BUMPING	242	224
9/5/2018 14:37	101.53	0	0	-999	560	2	290.15	0 BUMPING	242	224
9/5/2018 14:37	18.18	0	0	-999	560	13	343.08	0 BUMPING	242	224
9/5/2018 14:37	19.69	0	0	-999	560	10	288.41	0 BUMPING	242	224
9/5/2018 14:37	24.26	0	0	-999	560	26	290.27	0 BUMPING	242	224
9/5/2018 14:37	28.39	0	0	-999	560	27	287.98	0 BUMPING	242	224
9/5/2018 14:37	33.09	0	0	-999	560	1	290.58	0 BUMPING	242	224
9/5/2018 14:37	37.15	0	0	-999	560	1	287.55	0 BUMPING	242	224
9/5/2018 14:37	16.01	0	0	-999	560	5	353.04	0 BUMPING	242	224
9/5/2018 14:37	22.32	0	0	-999	560	36	341.81	0 BUMPING	242	224
9/5/2018 14:37	27.13	0	0	-999	560	33	336.65	0 BUMPING	242	224
9/5/2018 14:37	32.73	0	0	-999	560	1	341.3	0 BUMPING	242	224
9/5/2018 14:37	37.41	0	0	-999	560	2	337.35	0 BUMPING	242	224
9/5/2018 14:37	42.72	0	0	-999	560	1	338.53	0 BUMPING	242	224
9/5/2018 14:37	48.47	0	0	-999	560	29	342.57	0 BUMPING	242	224
9/5/2018 14:37	18.31	0	0	-999	560	35	345.32	0 BUMPING	242	224
9/5/2018 14:37	23.49	0	0	-999	560	31	340.99	0 BUMPING	242	224
9/5/2018 14:37	24.8	0	0	-999	560	1	294.62	0 BUMPING	242	224
9/5/2018 14:37	28.68	0	0	-999	560	1	289.52	0 BUMPING	242	224
9/5/2018 14:37	33.27	0	0	-999	560	2	290.56	0 BUMPING	242	224
9/5/2018 14:37	37.62	0	0	-999	560	40	289.83	0 BUMPING	242	224
9/5/2018 14:37	41.99	0	0	-999	560	47	290.34	0 BUMPING	242	224
9/5/2018 14:37	18.1	0	0	-999	560	1	330.47	0 BUMPING	242	224
9/5/2018 14:37	23.56	0	0	-999	560	1	336.11	0 BUMPING	242	224
9/5/2018 14:37	29.56	0	0	-999	560	1	346.16	0 BUMPING	242	224
9/5/2018 14:37	34.31	0	0	-999	560	11	342.77	0 BUMPING	242	224
9/5/2018 14:37	40.17	0	0	-999	560	37	347.27	0 BUMPING	242	224
9/5/2018 14:37	44.39	0	0	-999	560	39	338.89	0 BUMPING	242	224
9/5/2018 14:37	49.59	0	0	-999	560	1	339.02	0 BUMPING	242	224
9/5/2018 14:37	54.9	0	0	-999	560	1	340.39	0 BUMPING	242	224
9/5/2018 14:37	60.57	0	0	-999	560	13	342.98	0 BUMPING	242	224
9/5/2018 14:37	65.49	0	0	-999	560	66	339.25	0 BUMPING	242	224
9/5/2018 14:37	70.58	0	0	-999	560	61	339.08	0 BUMPING	242	224
9/5/2018 14:37	72.7	0	0	-999	560	1	327.18	0 BUMPING	242	224
9/5/2018 14:38	80.41	0	0	-999	560	1	338.6	0 BUMPING	242	224
9/5/2018 14:38	86.8	0	0	-999	560	5	343.28	0 BUMPING	242	224
9/5/2018 14:38	16.26	0	0	-999	560	46	290.41	0 BUMPING	242	224
9/5/2018 14:38	20.53	0	0	-999	560	27	288.07	0 BUMPING	242	224
9/5/2018 14:38	17.28	0	0	-999	560	29	294.57	0 BUMPING	242	224
9/5/2018 14:38	18.46	0	0	-999	560	1	329.72	0 BUMPING	242	224
9/5/2018 14:38	14.67	0	0	-999	560	1	284.99	0 BUMPING	242	224
9/5/2018 14:38	17.95	0	0	-999	560	2	362.09	0 BUMPING	242	224
9/5/2018 14:38	22.48	0	0	-999	560	34	344.19	0 BUMPING	242	224
9/5/2018 14:38	17.84	0	0	-999	560	30	343.73	0 BUMPING	242	224
9/5/2018 14:38	22.8	0	0	-999	560	2	339.79	0 BUMPING	242	224
9/5/2018 14:38	27.83	0	0	-999	560	1	335.67	0 BUMPING	242	224

9/5/2018 14:38	32.91	0	0	-999	560	1	337.96	0 BUMPING	242	224
9/5/2018 14:38	39.07	0	0	-999	560	35	346.72	0 BUMPING	242	224
9/5/2018 14:38	43.49	0	0	-999	560	43	339.71	0 BUMPING	242	224
9/5/2018 14:38	46.43	0	0	-999	560	39	328.21	0 BUMPING	242	224
9/5/2018 14:38	53.89	0	0	-999	560	1	340.48	0 BUMPING	242	224
9/5/2018 14:38	58.99	0	0	-999	560	1	339.83	0 BUMPING	242	224
9/5/2018 14:38	63.69	0	0	-999	560	14	335.57	0 BUMPING	242	224
9/5/2018 14:38	69.53	0	0	-999	560	64	341.04	0 BUMPING	242	224
9/5/2018 14:38	74.76	0	0	-999	560	59	341.08	0 BUMPING	242	224
9/5/2018 14:38	80.78	0	0	-999	560	1	345.39	0 BUMPING	242	224
9/5/2018 14:38	72.86	0	0	-999	560	1	292.02	0 BUMPING	242	224
9/5/2018 14:38	76.48	0	0	-999	560	6	288.84	0 BUMPING	242	224
9/5/2018 14:38	81.07	0	0	-999	560	75	290.99	0 BUMPING	242	224
9/5/2018 14:38	85.48	0	0	-999	560	83	289.66	0 BUMPING	242	224
9/5/2018 14:38	90.51	0	0	-999	560	36	291.59	0 BUMPING	242	224
9/5/2018 14:38	94.34	0	0	-999	560	1	289.66	0 BUMPING	242	224
9/5/2018 14:38	99.48	0	0	-999	560	5	291.42	0 BUMPING	242	224
9/5/2018 14:38	101.31	0	0	-999	560	39	289.47	0 BUMPING	242	224
9/5/2018 14:38	101.26	0	0	-999	560	96	289.31	0 BUMPING	242	224
9/5/2018 14:38	101.34	0	0	-999	560	75	289.06	0 BUMPING	242	224
9/5/2018 14:38	101.6	0	0	-999	560	1	290.31	0 BUMPING	242	224
9/5/2018 14:38	101.08	0	0	-999	560	3	288.82	0 BUMPING	242	224
9/5/2018 14:38	101.5	0	0	-999	560	15	290	0 BUMPING	242	224
9/5/2018 14:38	102.28	0	0	-999	560	99	291.68	0 BUMPING	242	224
9/5/2018 14:38	101.38	0	0	-999	560	95	289.67	0 BUMPING	242	224
9/5/2018 14:38	100.66	0	0	-999	560	38	287.62	0 BUMPING	242	224
9/5/2018 14:38	101.32	0	0	-999	560	1	289.76	0 BUMPING	242	224
9/5/2018 14:38	102.1	0	0	-999	560	7	291.71	0 BUMPING	242	224
9/5/2018 14:38	101.38	0	0	-999	560	39	289.66	0 BUMPING	242	224
9/5/2018 14:38	102.12	0	0	-999	560	97	292.17	0 BUMPING	242	224
9/5/2018 14:38	101.3	0	0	-999	560	71	289.45	0 BUMPING	242	224
9/5/2018 14:38	101.78	0	0	-999	560	1	290.82	0 BUMPING	242	224
9/5/2018 14:38	101.54	0	0	-999	560	3	290.05	0 BUMPING	242	224
9/5/2018 14:38	100.78	0	0	-999	560	17	287.96	0 BUMPING	242	224
9/5/2018 14:38	100.56	0	0	-999	560	97	287.33	0 BUMPING	242	224
9/5/2018 14:38	101.11	0	0	-999	560	93	288.9	0 BUMPING	242	224
9/5/2018 14:38	97.83	0	0	-999	560	37	288.72	0 BUMPING	242	224
9/5/2018 14:38	100.49	0	0	-999	560	1	287.12	0 BUMPING	242	224
9/5/2018 14:38	101.15	0	0	-999	560	7	289.01	0 BUMPING	242	224
9/5/2018 14:38	100.32	0	0	-999	560	38	286.65	0 BUMPING	242	224
9/5/2018 14:38	101.15	0	0	-999	560	93	289.01	0 BUMPING	242	224
9/5/2018 14:38	100.9	0	0	-999	560	70	288.31	0 BUMPING	242	224
9/5/2018 14:38	101.68	0	0	-999	560	1	290.53	0 BUMPING	242	224
9/5/2018 14:38	100.29	0	0	-999	560	3	286.9	0 BUMPING	242	224
9/5/2018 14:38	101.66	0	0	-999	560	17	290.48	0 BUMPING	242	224
9/5/2018 14:38	101.52	0	0	-999	560	105	290.07	0 BUMPING	242	224
9/5/2018 14:38	100.74	0	0	-999	560	92	288.34	0 BUMPING	242	224
9/5/2018 14:38	96.93	0	0	-999	560	22	276.94	0 BUMPING	242	224
9/5/2018 14:39	100.82	0	0	-999	560	2	288.07	0 BUMPING	242	224
9/5/2018 14:39	101.75	0	0	-999	560	8	290.2	0 BUMPING	242	224
9/5/2018 14:39	100.89	0	0	-999	560	47	288.25	0 BUMPING	242	224
9/5/2018 14:39	101.59	0	0	-999	560	94	290.27	0 BUMPING	242	224
9/5/2018 14:39	100.74	0	0	-999	560	71	287.84	0 BUMPING	242	224
9/5/2018 14:39	100.86	0	0	-999	560	1	288.65	0 BUMPING	242	224
9/5/2018 14:39	100.9	0	0	-999	560	3	288.29	0 BUMPING	242	224
9/5/2018 14:39	100.72	0	0	-999	560	17	287.79	0 BUMPING	242	224
9/5/2018 14:39	100.92	0	0	-999	560	105	288.32	0 BUMPING	242	224
9/5/2018 14:39	100.68	0	0	-999	560	91	287.66	0 BUMPING	242	224
9/5/2018 14:39	97.23	0	0	-999	560	21	277.82	0 BUMPING	242	224
9/5/2018 14:39	101.09	0	0	-999	560	1	288.84	0 BUMPING	242	224
9/5/2018 14:39	100.45	0	0	-999	560	9	287	0 BUMPING	242	224
9/5/2018 14:39	101.78	0	0	-999	560	47	290.82	0 BUMPING	242	224
9/5/2018 14:39	101.66	0	0	-999	560	92	290.46	0 BUMPING	242	224
9/5/2018 14:39	101.81	0	0	-999	560	72	290.8	0 BUMPING	242	224
9/5/2018 14:39	102.08	0	0	-999	560	1	291.66	0 BUMPING	242	224

9/5/2018 14:39	101.74	0	0	-999	560	3	290.68	0 BUMPING	242	224
9/5/2018 14:39	100.69	0	0	-999	560	17	287.83	0 BUMPING	242	224
9/5/2018 14:39	101.91	0	0	-999	560	101	291.18	0 BUMPING	242	224
9/5/2018 14:39	102.01	0	0	-999	560	92	291.47	0 BUMPING	242	224
9/5/2018 14:39	98.57	0	0	-999	560	21	281.63	0 BUMPING	242	224
9/5/2018 14:39	101.2	0	0	-999	560	2	288.22	0 BUMPING	242	224
9/5/2018 14:39	101.74	0	0	-999	560	9	290.7	0 BUMPING	242	224
9/5/2018 14:39	101.96	0	0	-999	560	47	291.32	0 BUMPING	242	224
9/5/2018 14:39	101.03	0	0	-999	560	93	288.65	0 BUMPING	242	224
9/5/2018 14:39	101.06	0	0	-999	560	66	288.75	0 BUMPING	242	224
9/5/2018 14:39	101.96	0	0	-999	560	1	291.32	0 BUMPING	242	224
9/5/2018 14:39	100.74	0	0	-999	560	3	287.84	0 BUMPING	242	224
9/5/2018 14:39	101.73	0	0	-999	560	20	290.67	0 BUMPING	242	224
9/5/2018 14:39	101.74	0	0	-999	560	102	290.68	0 BUMPING	242	224
9/5/2018 14:39	101.29	0	0	-999	560	92	289.4	0 BUMPING	242	224
9/5/2018 14:39	101.82	0	0	-999	560	21	281.49	0 BUMPING	242	224
9/5/2018 14:39	101.71	0	0	-999	560	2	290.6	0 BUMPING	242	224
9/5/2018 14:39	101.04	0	0	-999	560	9	288.68	0 BUMPING	242	224
9/5/2018 14:39	102.1	0	0	-999	560	47	291.28	0 BUMPING	242	224
9/5/2018 14:39	101.14	0	0	-999	560	93	288.99	0 BUMPING	242	224
9/5/2018 14:39	101.44	0	0	-999	560	67	289.83	0 BUMPING	242	224
9/5/2018 14:39	101.69	0	0	-999	560	1	290.56	0 BUMPING	242	224
9/5/2018 14:39	102.16	0	0	-999	560	3	291.9	0 BUMPING	242	224
9/5/2018 14:39	101.16	0	0	-999	560	17	288.46	0 BUMPING	242	224
9/5/2018 14:39	101.92	0	0	-999	560	100	291.21	0 BUMPING	242	224
9/5/2018 14:39	101.74	0	0	-999	560	91	290.89	0 BUMPING	242	224
9/5/2018 14:39	101.94	0	0	-999	560	1	291.27	0 BUMPING	242	224
9/5/2018 14:39	101.27	0	0	-999	560	2	289.35	0 BUMPING	242	224
9/5/2018 14:39	102.3	0	0	-999	560	9	292.29	0 BUMPING	242	224
9/5/2018 14:39	101.3	0	0	-999	560	46	289.01	0 BUMPING	242	224
9/5/2018 14:39	101.32	0	0	-999	560	92	289.49	0 BUMPING	242	224
9/5/2018 14:39	102.29	0	0	-999	560	66	292.28	0 BUMPING	242	224
9/5/2018 14:39	101.2	0	0	-999	560	1	288.75	0 BUMPING	242	224
9/5/2018 14:39	101.38	0	0	-999	560	4	289.67	0 BUMPING	242	224
9/5/2018 14:39	100.74	0	0	-999	560	20	287.84	0 BUMPING	242	224
9/5/2018 14:39	102.13	0	0	-999	560	102	292.24	0 BUMPING	242	224
9/5/2018 14:39	101.45	0	0	-999	560	87	289.86	0 BUMPING	242	224
9/5/2018 14:39	101.33	0	0	-999	560	1	289.54	0 BUMPING	242	224
9/5/2018 14:39	101.57	0	0	-999	560	1	289.4	0 BUMPING	242	224
9/5/2018 14:39	101.27	0	0	-999	560	10	289.37	0 BUMPING	242	224
9/5/2018 14:39	102.06	0	0	-999	560	55	291.61	0 BUMPING	242	224
9/5/2018 14:39	101.7	0	0	-999	560	94	290.12	0 BUMPING	242	224
9/5/2018 14:40	101.66	0	0	-999	560	60	290.46	0 BUMPING	242	224
9/5/2018 14:40	101.87	0	0	-999	560	1	291.06	0 BUMPING	242	224
9/5/2018 14:40	101.61	0	0	-999	560	4	290.32	0 BUMPING	242	224
9/5/2018 14:40	101.62	0	0	-999	560	20	291.09	0 BUMPING	242	224
9/5/2018 14:40	101.87	0	0	-999	560	100	291.08	0 BUMPING	242	224
9/5/2018 14:40	101.58	0	0	-999	560	87	290.24	0 BUMPING	242	224
9/5/2018 14:40	101.73	0	0	-999	560	1	291.44	0 BUMPING	242	224
9/5/2018 14:40	101.41	0	0	-999	560	2	289.76	0 BUMPING	242	224
9/5/2018 14:40	101.58	0	0	-999	560	10	290.24	0 BUMPING	242	224
9/5/2018 14:40	101.66	0	0	-999	560	55	290.46	0 BUMPING	242	224
9/5/2018 14:40	101.94	0	0	-999	560	94	291.27	0 BUMPING	242	224
9/5/2018 14:40	101.56	0	0	-999	560	59	290.19	0 BUMPING	242	224
9/5/2018 14:40	101.44	0	0	-999	560	1	289.85	0 BUMPING	242	224
9/5/2018 14:40	100.93	0	0	-999	560	4	287.79	0 BUMPING	242	224
9/5/2018 14:40	101.97	0	0	-999	560	23	291.35	0 BUMPING	242	224
9/5/2018 14:40	101.22	0	0	-999	560	98	289.21	0 BUMPING	242	224
9/5/2018 14:40	102.14	0	0	-999	560	85	291.83	0 BUMPING	242	224
9/5/2018 14:40	101.19	0	0	-999	560	1	288.46	0 BUMPING	242	224
9/5/2018 14:40	102.17	0	0	-999	560	1	291.92	0 BUMPING	242	224
9/5/2018 14:40	101.62	0	0	-999	560	10	290.36	0 BUMPING	242	224
9/5/2018 14:40	101.28	0	0	-999	560	55	289.76	0 BUMPING	242	224
9/5/2018 14:40	102.23	0	0	-999	560	92	292.09	0 BUMPING	242	224
9/5/2018 14:40	101.5	0	0	-999	560	66	290	0 BUMPING	242	224

9/5/2018 14:40	101.6	0	0	-999	560	1	290.84	0 BUMPING	242	224
9/5/2018 14:40	101.65	0	0	-999	560	5	290.43	0 BUMPING	242	224
9/5/2018 14:40	101.19	0	0	-999	560	23	289.13	0 BUMPING	242	224
9/5/2018 14:40	101.48	0	0	-999	560	98	289.95	0 BUMPING	242	224
9/5/2018 14:40	101.54	0	0	-999	560	85	290.08	0 BUMPING	242	224
9/5/2018 14:40	101.92	0	0	-999	560	1	291.21	0 BUMPING	242	224
9/5/2018 14:40	101.14	0	0	-999	560	2	288.97	0 BUMPING	242	224
9/5/2018 14:40	101.33	0	0	-999	560	10	289.49	0 BUMPING	242	224
9/5/2018 14:40	101.62	0	0	-999	560	66	290.34	0 BUMPING	242	224
9/5/2018 14:40	101.04	0	0	-999	560	91	288.68	0 BUMPING	242	224
9/5/2018 14:40	101.49	0	0	-999	560	66	290.56	0 BUMPING	242	224
9/5/2018 14:40	100.98	0	0	-999	560	1	288.51	0 BUMPING	242	224
9/5/2018 14:40	102.03	0	0	-999	560	4	291.52	0 BUMPING	242	224
9/5/2018 14:40	101.88	0	0	-999	560	23	291.09	0 BUMPING	242	224
9/5/2018 14:40	101.5	0	0	-999	560	97	290.02	0 BUMPING	242	224
9/5/2018 14:40	101.65	0	0	-999	560	82	290.43	0 BUMPING	242	224
9/5/2018 14:40	101.75	0	0	-999	560	1	290.72	0 BUMPING	242	224
9/5/2018 14:40	100.88	0	0	-999	560	2	288	0 BUMPING	242	224
9/5/2018 14:40	101.65	0	0	-999	560	11	290.44	0 BUMPING	242	224
9/5/2018 14:40	101.44	0	0	-999	560	65	289.83	0 BUMPING	242	224
9/5/2018 14:40	101.32	0	0	-999	560	90	289.49	0 BUMPING	242	224
9/5/2018 14:40	101.89	0	0	-999	560	58	291.11	0 BUMPING	242	224
9/5/2018 14:40	101.24	0	0	-999	560	1	289.28	0 BUMPING	242	224
9/5/2018 14:40	101.81	0	0	-999	560	5	290.89	0 BUMPING	242	224
9/5/2018 14:40	101.89	0	0	-999	560	23	290.36	0 BUMPING	242	224
9/5/2018 14:40	101.54	0	0	-999	560	96	290.14	0 BUMPING	242	224
9/5/2018 14:40	101.6	0	0	-999	560	80	290.31	0 BUMPING	242	224
9/5/2018 14:40	102.27	0	0	-999	560	1	292.05	0 BUMPING	242	224
9/5/2018 14:40	101.6	0	0	-999	560	2	290.31	0 BUMPING	242	224
9/5/2018 14:40	101.44	0	0	-999	560	11	289.85	0 BUMPING	242	224
9/5/2018 14:40	102.28	0	0	-999	560	66	292.1	0 BUMPING	242	224
9/5/2018 14:40	101.41	0	0	-999	560	96	289.74	0 BUMPING	242	224
9/5/2018 14:40	101.02	0	0	-999	560	58	288.63	0 BUMPING	242	224
9/5/2018 14:40	101.63	0	0	-999	560	1	290.39	0 BUMPING	242	224
9/5/2018 14:40	101.94	0	0	-999	560	5	291.4	0 BUMPING	242	224
9/5/2018 14:40	101.68	0	0	-999	560	27	290.53	0 BUMPING	242	224
9/5/2018 14:41	101.31	0	0	-999	560	97	289.47	0 BUMPING	242	224
9/5/2018 14:41	102.1	0	0	-999	560	80	291.73	0 BUMPING	242	224
9/5/2018 14:41	101.66	0	0	-999	560	1	290.46	0 BUMPING	242	224
9/5/2018 14:41	101.15	0	0	-999	560	2	289.01	0 BUMPING	242	224
9/5/2018 14:41	100.99	0	0	-999	560	12	288.12	0 BUMPING	242	224
9/5/2018 14:41	102.26	0	0	-999	560	66	291.03	0 BUMPING	242	224
9/5/2018 14:41	101.78	0	0	-999	560	96	290.82	0 BUMPING	242	224
9/5/2018 14:41	101.14	0	0	-999	560	57	288.97	0 BUMPING	242	224
9/5/2018 14:41	101.66	0	0	-999	560	1	289.88	0 BUMPING	242	224
9/5/2018 14:41	101.55	0	0	-999	560	6	290.15	0 BUMPING	242	224
9/5/2018 14:41	101.89	0	0	-999	560	27	291.11	0 BUMPING	242	224
9/5/2018 14:41	101.62	0	0	-999	560	95	290.36	0 BUMPING	242	224
9/5/2018 14:41	102.08	0	0	-999	560	80	292.31	0 BUMPING	242	224
9/5/2018 14:41	101.39	0	0	-999	560	1	289.71	0 BUMPING	242	224
9/5/2018 14:41	101.12	0	0	-999	560	2	288.92	0 BUMPING	242	224
9/5/2018 14:41	101.75	0	0	-999	560	13	290.72	0 BUMPING	242	224
9/5/2018 14:41	101.48	0	0	-999	560	80	289.95	0 BUMPING	242	224
9/5/2018 14:41	101.9	0	0	-999	560	96	291.15	0 BUMPING	242	224
9/5/2018 14:41	102.1	0	0	-999	560	57	292.65	0 BUMPING	242	224
9/5/2018 14:41	101.36	0	0	-999	560	1	289.61	0 BUMPING	242	224
9/5/2018 14:41	101.43	0	0	-999	560	6	289.81	0 BUMPING	242	224
9/5/2018 14:41	101.74	0	0	-999	560	27	291.15	0 BUMPING	242	224
9/5/2018 14:41	101.29	0	0	-999	560	94	289.42	0 BUMPING	242	224
9/5/2018 14:41	101.69	0	0	-999	560	77	290.56	0 BUMPING	242	224
9/5/2018 14:41	100.92	0	0	-999	560	1	288.34	0 BUMPING	242	224
9/5/2018 14:41	101.57	0	0	-999	560	2	290.2	0 BUMPING	242	224
9/5/2018 14:41	100.96	0	0	-999	560	11	288.46	0 BUMPING	242	224
9/5/2018 14:41	101.69	0	0	-999	560	66	289.49	0 BUMPING	242	224
9/5/2018 14:41	101.3	0	0	-999	560	95	289.09	0 BUMPING	242	224

9/5/2018 14:41	100.8	0	0	-999	560	56	288.01	0 BUMPING	242	224
9/5/2018 14:41	99.82	0	0	-999	560	1	285.21	0 BUMPING	242	224
9/5/2018 14:41	101.05	0	0	-999	560	5	288.41	0 BUMPING	242	224
9/5/2018 14:41	102.41	0	0	-999	560	27	292.6	0 BUMPING	242	224
9/5/2018 14:41	100.77	0	0	-999	560	93	287.93	0 BUMPING	242	224
9/5/2018 14:41	101.95	0	0	-999	560	81	290.48	0 BUMPING	242	224
9/5/2018 14:41	101.51	0	0	-999	560	1	290.03	0 BUMPING	242	224
9/5/2018 14:41	101.32	0	0	-999	560	2	289.49	0 BUMPING	242	224
9/5/2018 14:41	101.49	0	0	-999	560	11	289.98	0 BUMPING	242	224
9/5/2018 14:41	101.66	0	0	-999	560	80	290.48	0 BUMPING	242	224
9/5/2018 14:41	101.32	0	0	-999	560	94	289.5	0 BUMPING	242	224
9/5/2018 14:41	102.28	0	0	-999	560	56	292.22	0 BUMPING	242	224
9/5/2018 14:41	101.05	0	0	-999	560	1	289.21	0 BUMPING	242	224
9/5/2018 14:41	101.59	0	0	-999	560	5	290.26	0 BUMPING	242	224
9/5/2018 14:41	101.03	0	0	-999	560	27	288.66	0 BUMPING	242	224
9/5/2018 14:41	101.02	0	0	-999	560	94	287.81	0 BUMPING	242	224
9/5/2018 14:41	101.48	0	0	-999	560	81	289.38	0 BUMPING	242	224
9/5/2018 14:41	100.91	0	0	-999	560	1	288.32	0 BUMPING	242	224
9/5/2018 14:41	100.63	0	0	-999	560	2	287.52	0 BUMPING	242	224
9/5/2018 14:41	101.58	0	0	-999	560	13	290.24	0 BUMPING	242	224
9/5/2018 14:41	102.2	0	0	-999	560	79	292.02	0 BUMPING	242	224
9/5/2018 14:41	101.65	0	0	-999	560	93	290.43	0 BUMPING	242	224
9/5/2018 14:41	101.27	0	0	-999	560	55	290.31	0 BUMPING	242	224
9/5/2018 14:41	100.75	0	0	-999	560	1	287.86	0 BUMPING	242	224
9/5/2018 14:41	102.11	0	0	-999	560	6	291.74	0 BUMPING	242	224
9/5/2018 14:41	101.69	0	0	-999	560	27	291.16	0 BUMPING	242	224
9/5/2018 14:41	101.63	0	0	-999	560	93	290.39	0 BUMPING	242	224
9/5/2018 14:41	102.2	0	0	-999	560	79	292.02	0 BUMPING	242	224
9/5/2018 14:41	101.43	0	0	-999	560	1	289.81	0 BUMPING	242	224
9/5/2018 14:41	101.59	0	0	-999	560	2	290.14	0 BUMPING	242	224
9/5/2018 14:42	101.73	0	0	-999	560	13	290.67	0 BUMPING	242	224
9/5/2018 14:42	102.05	0	0	-999	560	79	291.59	0 BUMPING	242	224
9/5/2018 14:42	101.4	0	0	-999	560	92	290.08	0 BUMPING	242	224
9/5/2018 14:42	101.86	0	0	-999	560	46	291.03	0 BUMPING	242	224
9/5/2018 14:42	101.87	0	0	-999	560	1	291.06	0 BUMPING	242	224
9/5/2018 14:42	101.78	0	0	-999	560	5	290.8	0 BUMPING	242	224
9/5/2018 14:42	101.82	0	0	-999	560	27	291.08	0 BUMPING	242	224
9/5/2018 14:42	101.63	0	0	-999	560	93	290.39	0 BUMPING	242	224
9/5/2018 14:42	101.73	0	0	-999	560	78	290.67	0 BUMPING	242	224
9/5/2018 14:42	101.04	0	0	-999	560	1	288.94	0 BUMPING	242	224
9/5/2018 14:42	101.74	0	0	-999	560	2	290.7	0 BUMPING	242	224
9/5/2018 14:42	101.71	0	0	-999	560	13	290.6	0 BUMPING	242	224
9/5/2018 14:42	101.36	0	0	-999	560	80	289.38	0 BUMPING	242	224
9/5/2018 14:42	101.19	0	0	-999	560	91	289.13	0 BUMPING	242	224
9/5/2018 14:42	102.57	0	0	-999	560	47	293.08	0 BUMPING	242	224
9/5/2018 14:42	101.52	0	0	-999	560	1	289.85	0 BUMPING	242	224
9/5/2018 14:42	101.71	0	0	-999	560	5	291.23	0 BUMPING	242	224
9/5/2018 14:42	101.44	0	0	-999	560	32	289.85	0 BUMPING	242	224
9/5/2018 14:42	101.73	0	0	-999	560	94	290.67	0 BUMPING	242	224
9/5/2018 14:42	101.36	0	0	-999	560	77	288.85	0 BUMPING	242	224
9/5/2018 14:42	101.47	0	0	-999	560	1	289.91	0 BUMPING	242	224
9/5/2018 14:42	101.66	0	0	-999	560	3	290.48	0 BUMPING	242	224
9/5/2018 14:42	101.59	0	0	-999	560	13	290.26	0 BUMPING	242	224
9/5/2018 14:42	101.14	0	0	-999	560	100	288.99	0 BUMPING	242	224
9/5/2018 14:42	101.83	0	0	-999	560	91	290.94	0 BUMPING	242	224
9/5/2018 14:42	101.9	0	0	-999	560	45	291.35	0 BUMPING	242	224
9/5/2018 14:42	101.05	0	0	-999	560	1	289.18	0 BUMPING	242	224
9/5/2018 14:42	101.92	0	0	-999	560	6	291.21	0 BUMPING	242	224
9/5/2018 14:42	101.26	0	0	-999	560	32	289.33	0 BUMPING	242	224
9/5/2018 14:42	101.8	0	0	-999	560	93	291.61	0 BUMPING	242	224
9/5/2018 14:42	101.07	0	0	-999	560	75	288.78	0 BUMPING	242	224
9/5/2018 14:42	101.28	0	0	-999	560	1	289.38	0 BUMPING	242	224
9/5/2018 14:42	102.17	0	0	-999	560	2	292.07	0 BUMPING	242	224
9/5/2018 14:42	100.98	0	0	-999	560	15	288.53	0 BUMPING	242	224
9/5/2018 14:42	102.44	0	0	-999	560	99	292.7	0 BUMPING	242	224

9/5/2018 14:42	101.7	0	0	-999	560	89	290.44	0 BUMPING	242	224
9/5/2018 14:42	100.63	0	0	-999	560	34	287.54	0 BUMPING	242	224
9/5/2018 14:42	101.18	0	0	-999	560	1	289.09	0 BUMPING	242	224
9/5/2018 14:42	101.65	0	0	-999	560	6	290.43	0 BUMPING	242	224
9/5/2018 14:42	101.76	0	0	-999	560	32	290.55	0 BUMPING	242	224
9/5/2018 14:42	101.36	0	0	-999	560	93	289.61	0 BUMPING	242	224
9/5/2018 14:42	102.09	0	0	-999	560	74	291.69	0 BUMPING	242	224
9/5/2018 14:42	101.19	0	0	-999	560	1	290.03	0 BUMPING	242	224
9/5/2018 14:42	102.05	0	0	-999	560	3	291.59	0 BUMPING	242	224
9/5/2018 14:42	100.86	0	0	-999	560	14	288.19	0 BUMPING	242	224
9/5/2018 14:42	101.33	0	0	-999	560	99	289.52	0 BUMPING	242	224
9/5/2018 14:42	101.32	0	0	-999	560	87	289.49	0 BUMPING	242	224
9/5/2018 14:42	100.84	0	0	-999	560	32	288.13	0 BUMPING	242	224
9/5/2018 14:42	101.57	0	0	-999	560	1	290.2	0 BUMPING	242	224
9/5/2018 14:42	101.3	0	0	-999	560	6	289.43	0 BUMPING	242	224
9/5/2018 14:42	101.42	0	0	-999	560	32	290.75	0 BUMPING	242	224
9/5/2018 14:42	102.18	0	0	-999	560	92	291.95	0 BUMPING	242	224
9/5/2018 14:42	101.67	0	0	-999	560	80	290.77	0 BUMPING	242	224
9/5/2018 14:42	101.47	0	0	-999	560	1	289.67	0 BUMPING	242	224
9/5/2018 14:42	101.75	0	0	-999	560	3	290.74	0 BUMPING	242	224
9/5/2018 14:42	100.46	0	0	-999	560	15	287.04	0 BUMPING	242	224
9/5/2018 14:42	101.4	0	0	-999	560	98	289.71	0 BUMPING	242	224
9/5/2018 14:42	101.68	0	0	-999	560	87	290.53	0 BUMPING	242	224
9/5/2018 14:42	101.86	0	0	-999	560	32	291.03	0 BUMPING	242	224
9/5/2018 14:43	101.84	0	0	-999	560	1	290.17	0 BUMPING	242	224
9/5/2018 14:43	100.98	0	0	-999	560	8	288.51	0 BUMPING	242	224
9/5/2018 14:43	101.42	0	0	-999	560	38	289.79	0 BUMPING	242	224
9/5/2018 14:43	101.16	0	0	-999	560	92	289.02	0 BUMPING	242	224
9/5/2018 14:43	101.33	0	0	-999	560	80	290.38	0 BUMPING	242	224
9/5/2018 14:43	101.4	0	0	-999	560	1	289.73	0 BUMPING	242	224
9/5/2018 14:43	101.3	0	0	-999	560	3	289.45	0 BUMPING	242	224
9/5/2018 14:43	101.87	0	0	-999	560	15	291.23	0 BUMPING	242	224
9/5/2018 14:43	100.53	0	0	-999	560	97	287.24	0 BUMPING	242	224
9/5/2018 14:43	101.86	0	0	-999	560	84	291.03	0 BUMPING	242	224
9/5/2018 14:43	98.05	0	0	-999	560	32	290.17	0 BUMPING	242	224
9/5/2018 14:43	101.38	0	0	-999	560	1	289.67	0 BUMPING	242	224
9/5/2018 14:43	101.57	0	0	-999	560	7	290.22	0 BUMPING	242	224
9/5/2018 14:43	100.84	0	0	-999	560	37	287.96	0 BUMPING	242	224
9/5/2018 14:43	101.15	0	0	-999	560	98	290.32	0 BUMPING	242	224
9/5/2018 14:43	101.87	0	0	-999	560	75	291.08	0 BUMPING	242	224
9/5/2018 14:43	101.17	0	0	-999	560	1	289.08	0 BUMPING	242	224
9/5/2018 14:43	101.63	0	0	-999	560	3	290.38	0 BUMPING	242	224
9/5/2018 14:43	101.65	0	0	-999	560	17	290.43	0 BUMPING	242	224
9/5/2018 14:43	101.38	0	0	-999	560	96	289.67	0 BUMPING	242	224
9/5/2018 14:43	101.58	0	0	-999	560	85	290.24	0 BUMPING	242	224
9/5/2018 14:43	96.63	0	0	-999	560	32	287.43	0 BUMPING	242	224
9/5/2018 14:43	101.81	0	0	-999	560	1	290.91	0 BUMPING	242	224
9/5/2018 14:43	101.75	0	0	-999	560	7	290.72	0 BUMPING	242	224
9/5/2018 14:43	101.48	0	0	-999	560	38	290.08	0 BUMPING	242	224
9/5/2018 14:43	101.05	0	0	-999	560	98	288.72	0 BUMPING	242	224
9/5/2018 14:43	101.86	0	0	-999	560	75	291.04	0 BUMPING	242	224
9/5/2018 14:43	101.13	0	0	-999	560	1	289.97	0 BUMPING	242	224
9/5/2018 14:43	101.83	0	0	-999	560	3	290.94	0 BUMPING	242	224
9/5/2018 14:43	101.27	0	0	-999	560	17	289.35	0 BUMPING	242	224
9/5/2018 14:43	101.22	0	0	-999	560	95	289.37	0 BUMPING	242	224
9/5/2018 14:43	101.65	0	0	-999	560	83	291.08	0 BUMPING	242	224
9/5/2018 14:43	96.45	0	0	-999	560	16	275.57	0 BUMPING	242	224
9/5/2018 14:43	101.28	0	0	-999	560	1	289.38	0 BUMPING	242	224
9/5/2018 14:43	101.68	0	0	-999	560	7	290.84	0 BUMPING	242	224
9/5/2018 14:43	101.26	0	0	-999	560	45	289.31	0 BUMPING	242	224
9/5/2018 14:43	101.36	0	0	-999	560	98	289.61	0 BUMPING	242	224
9/5/2018 14:43	101.32	0	0	-999	560	75	289.55	0 BUMPING	242	224
9/5/2018 14:43	101.51	0	0	-999	560	1	290.05	0 BUMPING	242	224
9/5/2018 14:43	100.95	0	0	-999	560	3	288.44	0 BUMPING	242	224
9/5/2018 14:43	102.22	0	0	-999	560	17	292.07	0 BUMPING	242	224

9/5/2018 14:43	100.9	0	0	-999	560	94	288.31	0 BUMPING	242	224
9/5/2018 14:43	101.68	0	0	-999	560	84	290.51	0 BUMPING	242	224
9/5/2018 14:43	97.54	0	0	-999	560	16	278.69	0 BUMPING	242	224
9/5/2018 14:43	101.98	0	0	-999	560	1	290.48	0 BUMPING	242	224
9/5/2018 14:43	101	0	0	-999	560	8	288.58	0 BUMPING	242	224
9/5/2018 14:43	101.04	0	0	-999	560	45	288.68	0 BUMPING	242	224
9/5/2018 14:43	102.11	0	0	-999	560	97	292.39	0 BUMPING	242	224
9/5/2018 14:43	100.66	0	0	-999	560	69	287.6	0 BUMPING	242	224
9/5/2018 14:43	101.71	0	0	-999	560	1	290.62	0 BUMPING	242	224
9/5/2018 14:43	101.85	0	0	-999	560	3	291.01	0 BUMPING	242	224
9/5/2018 14:43	101.57	0	0	-999	560	17	289.71	0 BUMPING	242	224
9/5/2018 14:43	101.05	0	0	-999	560	92	288.72	0 BUMPING	242	224
9/5/2018 14:43	101.41	0	0	-999	560	83	289.74	0 BUMPING	242	224
9/5/2018 14:43	101.9	0	0	-999	560	16	281.73	0 BUMPING	242	224
9/5/2018 14:43	101.71	0	0	-999	560	2	290.62	0 BUMPING	242	224
9/5/2018 14:43	101.39	0	0	-999	560	9	289.69	0 BUMPING	242	224
9/5/2018 14:43	101.53	0	0	-999	560	44	290.1	0 BUMPING	242	224
9/5/2018 14:43	101.44	0	0	-999	560	96	289.59	0 BUMPING	242	224
9/5/2018 14:44	101.94	0	0	-999	560	70	291.27	0 BUMPING	242	224
9/5/2018 14:44	101.63	0	0	-999	560	1	290.38	0 BUMPING	242	224
9/5/2018 14:44	100.7	0	0	-999	560	3	288.72	0 BUMPING	242	224
9/5/2018 14:44	101.65	0	0	-999	560	19	290.43	0 BUMPING	242	224
9/5/2018 14:44	101.42	0	0	-999	560	93	289.78	0 BUMPING	242	224
9/5/2018 14:44	101.95	0	0	-999	560	83	291.13	0 BUMPING	242	224
9/5/2018 14:44	101.32	0	0	-999	560	1	289.49	0 BUMPING	242	224
9/5/2018 14:44	101.77	0	0	-999	560	2	290.77	0 BUMPING	242	224
9/5/2018 14:44	101.96	0	0	-999	560	8	290.63	0 BUMPING	242	224
9/5/2018 14:44	100.77	0	0	-999	560	44	288.92	0 BUMPING	242	224
9/5/2018 14:44	101.33	0	0	-999	560	94	289.54	0 BUMPING	242	224
9/5/2018 14:44	102.2	0	0	-999	560	70	292	0 BUMPING	242	224
9/5/2018 14:44	101.38	0	0	-999	560	1	290.32	0 BUMPING	242	224
9/5/2018 14:44	101.29	0	0	-999	560	4	289.4	0 BUMPING	242	224
9/5/2018 14:44	101.44	0	0	-999	560	20	289.85	0 BUMPING	242	224
9/5/2018 14:44	101.44	0	0	-999	560	94	290.17	0 BUMPING	242	224
9/5/2018 14:44	102.51	0	0	-999	560	84	292.07	0 BUMPING	242	224
9/5/2018 14:44	101.1	0	0	-999	560	1	288.85	0 BUMPING	242	224
9/5/2018 14:44	101.8	0	0	-999	560	1	290.87	0 BUMPING	242	224
9/5/2018 14:44	101.69	0	0	-999	560	8	290.55	0 BUMPING	242	224
9/5/2018 14:44	101.66	0	0	-999	560	53	290.46	0 BUMPING	242	224
9/5/2018 14:44	101.41	0	0	-999	560	94	289.76	0 BUMPING	242	224
9/5/2018 14:44	101.5	0	0	-999	560	68	289.45	0 BUMPING	242	224
9/5/2018 14:44	101.15	0	0	-999	560	1	289.01	0 BUMPING	242	224
9/5/2018 14:44	101.56	0	0	-999	560	4	290.19	0 BUMPING	242	224
9/5/2018 14:44	100.55	0	0	-999	560	20	287.3	0 BUMPING	242	224
9/5/2018 14:44	102.02	0	0	-999	560	93	291.51	0 BUMPING	242	224
9/5/2018 14:44	101.81	0	0	-999	560	81	290.91	0 BUMPING	242	224
9/5/2018 14:44	101.41	0	0	-999	560	1	289.74	0 BUMPING	242	224
9/5/2018 14:44	101.38	0	0	-999	560	2	290.03	0 BUMPING	242	224
9/5/2018 14:44	101.79	0	0	-999	560	10	290.84	0 BUMPING	242	224
9/5/2018 14:44	101.36	0	0	-999	560	53	289.61	0 BUMPING	242	224
9/5/2018 14:44	101.68	0	0	-999	560	94	290.8	0 BUMPING	242	224
9/5/2018 14:44	101.18	0	0	-999	560	62	289.09	0 BUMPING	242	224
9/5/2018 14:44	101.36	0	0	-999	560	1	289.62	0 BUMPING	242	224
9/5/2018 14:44	101.88	0	0	-999	560	4	290.58	0 BUMPING	242	224
9/5/2018 14:44	101.3	0	0	-999	560	23	289.43	0 BUMPING	242	224
9/5/2018 14:44	101.3	0	0	-999	560	93	289.45	0 BUMPING	242	224
9/5/2018 14:44	101.87	0	0	-999	560	82	291.08	0 BUMPING	242	224
9/5/2018 14:44	101.71	0	0	-999	560	1	290.68	0 BUMPING	242	224
9/5/2018 14:44	101.33	0	0	-999	560	2	289.52	0 BUMPING	242	224
9/5/2018 14:44	101.56	0	0	-999	560	10	290.19	0 BUMPING	242	224
9/5/2018 14:44	102.11	0	0	-999	560	53	291.15	0 BUMPING	242	224
9/5/2018 14:44	100.86	0	0	-999	560	92	288.19	0 BUMPING	242	224
9/5/2018 14:44	102.01	0	0	-999	560	61	291.47	0 BUMPING	242	224
9/5/2018 14:44	101.56	0	0	-999	560	1	290.17	0 BUMPING	242	224
9/5/2018 14:44	101.32	0	0	-999	560	5	289.49	0 BUMPING	242	224

9/5/2018 14:44	101.68	0	0	-999	560	23	290.51	0 BUMPING	242	224
9/5/2018 14:44	101.81	0	0	-999	560	93	290.91	0 BUMPING	242	224
9/5/2018 14:44	101.82	0	0	-999	560	82	291.33	0 BUMPING	242	224
9/5/2018 14:44	101.32	0	0	-999	560	1	289.5	0 BUMPING	242	224
9/5/2018 14:44	101.71	0	0	-999	560	2	290.6	0 BUMPING	242	224
9/5/2018 14:44	101.44	0	0	-999	560	10	290.6	0 BUMPING	242	224
9/5/2018 14:44	101.41	0	0	-999	560	62	289.76	0 BUMPING	242	224
9/5/2018 14:44	101.07	0	0	-999	560	92	288.77	0 BUMPING	242	224
9/5/2018 14:44	101.69	0	0	-999	560	61	290.55	0 BUMPING	242	224
9/5/2018 14:44	101.75	0	0	-999	560	1	290.74	0 BUMPING	242	224
9/5/2018 14:44	101.04	0	0	-999	560	5	288.68	0 BUMPING	242	224
9/5/2018 14:44	101.56	0	0	-999	560	23	290.17	0 BUMPING	242	224
9/5/2018 14:44	101.86	0	0	-999	560	94	291.04	0 BUMPING	242	224
9/5/2018 14:45	102.09	0	0	-999	560	79	291.69	0 BUMPING	242	224
9/5/2018 14:45	101.75	0	0	-999	560	1	290.74	0 BUMPING	242	224
9/5/2018 14:45	101.2	0	0	-999	560	2	289.85	0 BUMPING	242	224
9/5/2018 14:45	101.99	0	0	-999	560	11	291.4	0 BUMPING	242	224
9/5/2018 14:45	101.13	0	0	-999	560	62	288.96	0 BUMPING	242	224
9/5/2018 14:45	101.52	0	0	-999	560	91	290.07	0 BUMPING	242	224
9/5/2018 14:45	102.05	0	0	-999	560	58	291.45	0 BUMPING	242	224
9/5/2018 14:45	101.67	0	0	-999	560	1	290.5	0 BUMPING	242	224
9/5/2018 14:45	101.54	0	0	-999	560	5	290.12	0 BUMPING	242	224
9/5/2018 14:45	101.69	0	0	-999	560	23	290.44	0 BUMPING	242	224
9/5/2018 14:45	101.77	0	0	-999	560	93	290.77	0 BUMPING	242	224
9/5/2018 14:45	101.21	0	0	-999	560	80	289.18	0 BUMPING	242	224
9/5/2018 14:45	101.48	0	0	-999	560	1	289.95	0 BUMPING	242	224
9/5/2018 14:45	101.77	0	0	-999	560	2	290.77	0 BUMPING	242	224
9/5/2018 14:45	102.15	0	0	-999	560	11	291.86	0 BUMPING	242	224
9/5/2018 14:45	101.26	0	0	-999	560	63	289.31	0 BUMPING	242	224
9/5/2018 14:45	101.35	0	0	-999	560	89	289.59	0 BUMPING	242	224
9/5/2018 14:45	101.65	0	0	-999	560	51	290.44	0 BUMPING	242	224
9/5/2018 14:45	101.96	0	0	-999	560	1	291.33	0 BUMPING	242	224
9/5/2018 14:45	101.3	0	0	-999	560	5	290.51	0 BUMPING	242	224
9/5/2018 14:45	101.65	0	0	-999	560	27	290.44	0 BUMPING	242	224
9/5/2018 14:45	101.41	0	0	-999	560	93	289.74	0 BUMPING	242	224
9/5/2018 14:45	102.05	0	0	-999	560	86	291.59	0 BUMPING	242	224
9/5/2018 14:45	102.34	0	0	-999	560	1	292.41	0 BUMPING	242	224
9/5/2018 14:45	101.33	0	0	-999	560	2	289.54	0 BUMPING	242	224
9/5/2018 14:45	101.2	0	0	-999	560	11	289.16	0 BUMPING	242	224
9/5/2018 14:45	102.16	0	0	-999	560	63	291.01	0 BUMPING	242	224
9/5/2018 14:45	101.63	0	0	-999	560	90	290.38	0 BUMPING	242	224
9/5/2018 14:45	102.2	0	0	-999	560	51	292.02	0 BUMPING	242	224
9/5/2018 14:45	101.35	0	0	-999	560	1	289.59	0 BUMPING	242	224
9/5/2018 14:45	101.86	0	0	-999	560	5	291.03	0 BUMPING	242	224
9/5/2018 14:45	101.92	0	0	-999	560	27	291.21	0 BUMPING	242	224
9/5/2018 14:45	101.47	0	0	-999	560	93	289.93	0 BUMPING	242	224
9/5/2018 14:45	101.42	0	0	-999	560	85	291.08	0 BUMPING	242	224
9/5/2018 14:45	101.83	0	0	-999	560	1	290.94	0 BUMPING	242	224
9/5/2018 14:45	102.03	0	0	-999	560	2	291.52	0 BUMPING	242	224
9/5/2018 14:45	101.2	0	0	-999	560	11	289.31	0 BUMPING	242	224
9/5/2018 14:45	102.3	0	0	-999	560	78	292.29	0 BUMPING	242	224
9/5/2018 14:45	102.32	0	0	-999	560	88	292.34	0 BUMPING	242	224
9/5/2018 14:45	101.33	0	0	-999	560	51	289.26	0 BUMPING	242	224
9/5/2018 14:45	101.95	0	0	-999	560	1	291.28	0 BUMPING	242	224
9/5/2018 14:45	101.41	0	0	-999	560	6	289.74	0 BUMPING	242	224
9/5/2018 14:45	101.53	0	0	-999	560	27	290.14	0 BUMPING	242	224
9/5/2018 14:45	102.08	0	0	-999	560	101	291.66	0 BUMPING	242	224
9/5/2018 14:45	100.81	0	0	-999	560	81	288.05	0 BUMPING	242	224
9/5/2018 14:45	101.94	0	0	-999	560	1	291.27	0 BUMPING	242	224
9/5/2018 14:45	102.02	0	0	-999	560	2	291.93	0 BUMPING	242	224
9/5/2018 14:45	101.39	0	0	-999	560	13	289.71	0 BUMPING	242	224
9/5/2018 14:45	101.53	0	0	-999	560	78	290.08	0 BUMPING	242	224
9/5/2018 14:45	102.32	0	0	-999	560	87	292.7	0 BUMPING	242	224
9/5/2018 14:45	101.87	0	0	-999	560	43	291.06	0 BUMPING	242	224
9/5/2018 14:45	101.06	0	0	-999	560	1	288.75	0 BUMPING	242	224

9/5/2018 14:45	101.84	0	0	-999	560	5	290.97	0 BUMPING	242	224
9/5/2018 14:45	101.54	0	0	-999	560	27	290.48	0 BUMPING	242	224
9/5/2018 14:45	101.23	0	0	-999	560	98	289.25	0 BUMPING	242	224
9/5/2018 14:45	101.97	0	0	-999	560	81	291.35	0 BUMPING	242	224
9/5/2018 14:45	101.56	0	0	-999	560	1	290.08	0 BUMPING	242	224
9/5/2018 14:45	102.34	0	0	-999	560	3	292.41	0 BUMPING	242	224
9/5/2018 14:45	102.13	0	0	-999	560	13	291.8	0 BUMPING	242	224
9/5/2018 14:46	101.47	0	0	-999	560	77	290.8	0 BUMPING	242	224
9/5/2018 14:46	102.32	0	0	-999	560	87	291.56	0 BUMPING	242	224
9/5/2018 14:46	101.66	0	0	-999	560	43	290.46	0 BUMPING	242	224
9/5/2018 14:46	102.33	0	0	-999	560	1	292.38	0 BUMPING	242	224
9/5/2018 14:46	101.68	0	0	-999	560	6	290.62	0 BUMPING	242	224
9/5/2018 14:46	101.99	0	0	-999	560	32	291.4	0 BUMPING	242	224
9/5/2018 14:46	101.59	0	0	-999	560	98	290.26	0 BUMPING	242	224
9/5/2018 14:46	102.31	0	0	-999	560	82	292.33	0 BUMPING	242	224
9/5/2018 14:46	102.25	0	0	-999	560	1	292.16	0 BUMPING	242	224
9/5/2018 14:46	102.47	0	0	-999	560	3	292.79	0 BUMPING	242	224
9/5/2018 14:46	101.34	0	0	-999	560	13	289.55	0 BUMPING	242	224
9/5/2018 14:46	101.54	0	0	-999	560	93	290.12	0 BUMPING	242	224
9/5/2018 14:46	102.11	0	0	-999	560	87	291.76	0 BUMPING	242	224
9/5/2018 14:46	101.81	0	0	-999	560	43	290.91	0 BUMPING	242	224
9/5/2018 14:46	101.38	0	0	-999	560	1	289.64	0 BUMPING	242	224
9/5/2018 14:46	101.36	0	0	-999	560	6	289.62	0 BUMPING	242	224
9/5/2018 14:46	101.54	0	0	-999	560	31	290.14	0 BUMPING	242	224
9/5/2018 14:46	100.83	0	0	-999	560	98	288.08	0 BUMPING	242	224
9/5/2018 14:46	102.11	0	0	-999	560	78	291.74	0 BUMPING	242	224
9/5/2018 14:46	101.14	0	0	-999	560	1	288.97	0 BUMPING	242	224
9/5/2018 14:46	101.94	0	0	-999	560	3	291.27	0 BUMPING	242	224
9/5/2018 14:46	101.58	0	0	-999	560	13	290.63	0 BUMPING	242	224
9/5/2018 14:46	101.83	0	0	-999	560	94	290.96	0 BUMPING	242	224
9/5/2018 14:46	101.82	0	0	-999	560	86	290.92	0 BUMPING	242	224
9/5/2018 14:46	102.07	0	0	-999	560	44	292.39	0 BUMPING	242	224
9/5/2018 14:46	101.19	0	0	-999	560	2	289.13	0 BUMPING	242	224
9/5/2018 14:46	101.6	0	0	-999	560	6	290.29	0 BUMPING	242	224
9/5/2018 14:46	102.53	0	0	-999	560	32	292.94	0 BUMPING	242	224
9/5/2018 14:46	101.93	0	0	-999	560	98	290.97	0 BUMPING	242	224
9/5/2018 14:46	102.1	0	0	-999	560	77	291.71	0 BUMPING	242	224
9/5/2018 14:46	101.5	0	0	-999	560	1	290	0 BUMPING	242	224
9/5/2018 14:46	101.9	0	0	-999	560	3	291.81	0 BUMPING	242	224
9/5/2018 14:46	102.31	0	0	-999	560	15	292.33	0 BUMPING	242	224
9/5/2018 14:46	102.49	0	0	-999	560	95	292.84	0 BUMPING	242	224
9/5/2018 14:46	101.05	0	0	-999	560	86	288.65	0 BUMPING	242	224
9/5/2018 14:46	100.97	0	0	-999	560	33	288.49	0 BUMPING	242	224
9/5/2018 14:46	101.56	0	0	-999	560	1	290.17	0 BUMPING	242	224
9/5/2018 14:46	101.99	0	0	-999	560	6	291.4	0 BUMPING	242	224
9/5/2018 14:46	102.02	0	0	-999	560	37	291.49	0 BUMPING	242	224
9/5/2018 14:46	102.11	0	0	-999	560	95	291.74	0 BUMPING	242	224
9/5/2018 14:46	102.28	0	0	-999	560	78	292.22	0 BUMPING	242	224
9/5/2018 14:46	102.2	0	0	-999	560	1	292.02	0 BUMPING	242	224
9/5/2018 14:46	101.78	0	0	-999	560	3	290.8	0 BUMPING	242	224
9/5/2018 14:46	102.01	0	0	-999	560	15	291.47	0 BUMPING	242	224
9/5/2018 14:46	102.47	0	0	-999	560	94	291.8	0 BUMPING	242	224
9/5/2018 14:46	101.84	0	0	-999	560	86	291.42	0 BUMPING	242	224
9/5/2018 14:46	102.1	0	0	-999	560	33	291.73	0 BUMPING	242	224
9/5/2018 14:46	101.45	0	0	-999	560	1	289.86	0 BUMPING	242	224
9/5/2018 14:46	101.55	0	0	-999	560	6	291.09	0 BUMPING	242	224
9/5/2018 14:46	101.78	0	0	-999	560	37	290.8	0 BUMPING	242	224
9/5/2018 14:46	102.91	0	0	-999	560	96	294.04	0 BUMPING	242	224
9/5/2018 14:46	102.16	0	0	-999	560	77	292.14	0 BUMPING	242	224
9/5/2018 14:46	101.72	0	0	-999	560	1	290.63	0 BUMPING	242	224
9/5/2018 14:46	102.17	0	0	-999	560	3	291.93	0 BUMPING	242	224
9/5/2018 14:46	102.45	0	0	-999	560	15	292.74	0 BUMPING	242	224
9/5/2018 14:46	102.21	0	0	-999	560	94	291.88	0 BUMPING	242	224
9/5/2018 14:46	102.12	0	0	-999	560	86	291.78	0 BUMPING	242	224
9/5/2018 14:46	101.93	0	0	-999	560	33	291.25	0 BUMPING	242	224

9/5/2018 14:46	102.02	0	0	-999	560	1	290.62	0 BUMPING	242	224
9/5/2018 14:47	101.9	0	0	-999	560	8	291.15	0 BUMPING	242	224
9/5/2018 14:47	101.59	0	0	-999	560	38	290.26	0 BUMPING	242	224
9/5/2018 14:47	102.1	0	0	-999	560	96	291.86	0 BUMPING	242	224
9/5/2018 14:47	101.8	0	0	-999	560	76	292	0 BUMPING	242	224
9/5/2018 14:47	102.7	0	0	-999	560	1	293.44	0 BUMPING	242	224
9/5/2018 14:47	101.89	0	0	-999	560	3	291.13	0 BUMPING	242	224
9/5/2018 14:47	101.83	0	0	-999	560	17	290.94	0 BUMPING	242	224
9/5/2018 14:47	102.5	0	0	-999	560	95	292.86	0 BUMPING	242	224
9/5/2018 14:47	101.36	0	0	-999	560	85	289.62	0 BUMPING	242	224
9/5/2018 14:47	96.79	0	0	-999	560	17	276.55	0 BUMPING	242	224
9/5/2018 14:47	102.07	0	0	-999	560	2	291.62	0 BUMPING	242	224
9/5/2018 14:47	101.65	0	0	-999	560	8	290.43	0 BUMPING	242	224
9/5/2018 14:47	101.89	0	0	-999	560	37	290.91	0 BUMPING	242	224
9/5/2018 14:47	101.96	0	0	-999	560	95	291.16	0 BUMPING	242	224
9/5/2018 14:47	102.37	0	0	-999	560	72	292.5	0 BUMPING	242	224
9/5/2018 14:47	101.87	0	0	-999	560	1	291.08	0 BUMPING	242	224
9/5/2018 14:47	101.41	0	0	-999	560	3	290	0 BUMPING	242	224
9/5/2018 14:47	102.21	0	0	-999	560	17	292.04	0 BUMPING	242	224
9/5/2018 14:47	101.53	0	0	-999	560	94	290.08	0 BUMPING	242	224
9/5/2018 14:47	101.57	0	0	-999	560	85	290.22	0 BUMPING	242	224
9/5/2018 14:47	98.04	0	0	-999	560	24	280.13	0 BUMPING	242	224
9/5/2018 14:47	102.63	0	0	-999	560	2	293.23	0 BUMPING	242	224
9/5/2018 14:47	101.72	0	0	-999	560	8	290	0 BUMPING	242	224
9/5/2018 14:47	101.75	0	0	-999	560	44	290.74	0 BUMPING	242	224
9/5/2018 14:47	102.6	0	0	-999	560	94	293.16	0 BUMPING	242	224
9/5/2018 14:47	101.15	0	0	-999	560	71	289.01	0 BUMPING	242	224
9/5/2018 14:47	102.41	0	0	-999	560	1	291.98	0 BUMPING	242	224
9/5/2018 14:47	102	0	0	-999	560	4	291.44	0 BUMPING	242	224
9/5/2018 14:47	102.13	0	0	-999	560	17	291.8	0 BUMPING	242	224
9/5/2018 14:47	102.16	0	0	-999	560	94	291.06	0 BUMPING	242	224
9/5/2018 14:47	102.51	0	0	-999	560	84	292.89	0 BUMPING	242	224
9/5/2018 14:47	96.7	0	0	-999	560	23	276.29	0 BUMPING	242	224
9/5/2018 14:47	101.83	0	0	-999	560	2	290.96	0 BUMPING	242	224
9/5/2018 14:47	101.99	0	0	-999	560	9	291.42	0 BUMPING	242	224
9/5/2018 14:47	101.84	0	0	-999	560	43	290.99	0 BUMPING	242	224
9/5/2018 14:47	101.95	0	0	-999	560	93	291.3	0 BUMPING	242	224
9/5/2018 14:47	102.01	0	0	-999	560	65	291.45	0 BUMPING	242	224
9/5/2018 14:47	101.17	0	0	-999	560	1	289.06	0 BUMPING	242	224
9/5/2018 14:47	102.43	0	0	-999	560	3	292.67	0 BUMPING	242	224
9/5/2018 14:47	100.86	0	0	-999	560	17	288.44	0 BUMPING	242	224
9/5/2018 14:47	101.83	0	0	-999	560	94	290.94	0 BUMPING	242	224
9/5/2018 14:47	101.56	0	0	-999	560	91	290.19	0 BUMPING	242	224
9/5/2018 14:47	102.47	0	0	-999	560	22	281.17	0 BUMPING	242	224
9/5/2018 14:47	101.95	0	0	-999	560	1	291.33	0 BUMPING	242	224
9/5/2018 14:47	102.08	0	0	-999	560	8	291.68	0 BUMPING	242	224
9/5/2018 14:47	101.96	0	0	-999	560	44	291.33	0 BUMPING	242	224
9/5/2018 14:47	103.89	0	0	-999	560	93	296.84	0 BUMPING	242	224
9/5/2018 14:47	104.53	0	0	-999	560	70	298.14	0 BUMPING	242	224
9/5/2018 14:47	104.68	0	0	-999	560	1	299.09	0 BUMPING	242	224
9/5/2018 14:47	103.34	0	0	-999	560	4	295.27	0 BUMPING	242	224
9/5/2018 14:47	105.16	0	0	-999	560	17	299.94	0 BUMPING	242	224
9/5/2018 14:47	104.32	0	0	-999	560	96	298.08	0 BUMPING	242	224
9/5/2018 14:47	103.93	0	0	-999	560	91	296.95	0 BUMPING	242	224
9/5/2018 14:47	99.07	0	0	-999	560	23	283.07	0 BUMPING	242	224
9/5/2018 14:47	103.59	0	0	-999	560	2	295.99	0 BUMPING	242	224
9/5/2018 14:47	104.49	0	0	-999	560	9	298.56	0 BUMPING	242	224
9/5/2018 14:47	105.37	0	0	-999	560	45	299.94	0 BUMPING	242	224
9/5/2018 14:47	103.83	0	0	-999	560	92	296.66	0 BUMPING	242	224
9/5/2018 14:47	103.83	0	0	-999	560	64	296.67	0 BUMPING	242	224
9/5/2018 14:48	104.65	0	0	-999	560	1	298.62	0 BUMPING	242	224
9/5/2018 14:48	104.04	0	0	-999	560	4	297.27	0 BUMPING	242	224
9/5/2018 14:48	103.89	0	0	-999	560	20	296.84	0 BUMPING	242	224
9/5/2018 14:48	104.26	0	0	-999	560	96	297.89	0 BUMPING	242	224
9/5/2018 14:48	104.11	0	0	-999	560	90	297.87	0 BUMPING	242	224

9/5/2018 14:48	104.89	0	0	-999	560	1	299.7	0 BUMPING	242	224
9/5/2018 14:48	104.11	0	0	-999	560	2	297.48	0 BUMPING	242	224
9/5/2018 14:48	103.8	0	0	-999	560	9	296.91	0 BUMPING	242	224
9/5/2018 14:48	104.96	0	0	-999	560	53	299.89	0 BUMPING	242	224
9/5/2018 14:48	104.5	0	0	-999	560	90	298.59	0 BUMPING	242	224
9/5/2018 14:48	103.66	0	0	-999	560	65	295.3	0 BUMPING	242	224
9/5/2018 14:48	104.33	0	0	-999	560	1	298.09	0 BUMPING	242	224
9/5/2018 14:48	104.38	0	0	-999	560	4	298.23	0 BUMPING	242	224
9/5/2018 14:48	103.92	0	0	-999	560	20	296.93	0 BUMPING	242	224
9/5/2018 14:48	104.7	0	0	-999	560	102	298.81	0 BUMPING	242	224
9/5/2018 14:48	103.63	0	0	-999	560	87	296.09	0 BUMPING	242	224
9/5/2018 14:48	104.54	0	0	-999	560	1	298.71	0 BUMPING	242	224
9/5/2018 14:48	104.21	0	0	-999	560	2	297.63	0 BUMPING	242	224
9/5/2018 14:48	104.1	0	0	-999	560	10	297.44	0 BUMPING	242	224
9/5/2018 14:48	104.14	0	0	-999	560	53	297.56	0 BUMPING	242	224
9/5/2018 14:48	104.41	0	0	-999	560	91	298.33	0 BUMPING	242	224
9/5/2018 14:48	104.55	0	0	-999	560	66	298.93	0 BUMPING	242	224
9/5/2018 14:48	104.9	0	0	-999	560	1	299.72	0 BUMPING	242	224
9/5/2018 14:48	104.22	0	0	-999	560	4	297.79	0 BUMPING	242	224
9/5/2018 14:48	103.69	0	0	-999	560	20	296.16	0 BUMPING	242	224
9/5/2018 14:48	104.36	0	0	-999	560	102	298.18	0 BUMPING	242	224
9/5/2018 14:48	103.87	0	0	-999	560	87	296.79	0 BUMPING	242	224
9/5/2018 14:48	104.71	0	0	-999	560	1	299.24	0 BUMPING	242	224
9/5/2018 14:48	104.6	0	0	-999	560	2	298.88	0 BUMPING	242	224
9/5/2018 14:48	104.22	0	0	-999	560	10	297.77	0 BUMPING	242	224
9/5/2018 14:48	103.72	0	0	-999	560	53	296.36	0 BUMPING	242	224
9/5/2018 14:48	103.81	0	0	-999	560	89	296.55	0 BUMPING	242	224
9/5/2018 14:48	104.19	0	0	-999	560	59	297.7	0 BUMPING	242	224
9/5/2018 14:48	103.87	0	0	-999	560	1	296.78	0 BUMPING	242	224
9/5/2018 14:48	104.04	0	0	-999	560	4	297.99	0 BUMPING	242	224
9/5/2018 14:48	104.31	0	0	-999	560	23	298.02	0 BUMPING	242	224
9/5/2018 14:48	104.9	0	0	-999	560	100	299.74	0 BUMPING	242	224
9/5/2018 14:48	103.8	0	0	-999	560	87	296.35	0 BUMPING	242	224
9/5/2018 14:48	104.07	0	0	-999	560	1	297.34	0 BUMPING	242	224
9/5/2018 14:48	104.57	0	0	-999	560	2	298.79	0 BUMPING	242	224
9/5/2018 14:48	104.6	0	0	-999	560	10	298.86	0 BUMPING	242	224
9/5/2018 14:48	103.69	0	0	-999	560	64	296.26	0 BUMPING	242	224
9/5/2018 14:48	104.16	0	0	-999	560	89	297.61	0 BUMPING	242	224
9/5/2018 14:48	104.45	0	0	-999	560	60	298.44	0 BUMPING	242	224
9/5/2018 14:48	104.13	0	0	-999	560	1	297.39	0 BUMPING	242	224
9/5/2018 14:48	103.48	0	0	-999	560	5	295.66	0 BUMPING	242	224
9/5/2018 14:48	104.4	0	0	-999	560	23	298.28	0 BUMPING	242	224
9/5/2018 14:48	103.97	0	0	-999	560	99	297.25	0 BUMPING	242	224
9/5/2018 14:48	104.31	0	0	-999	560	84	298.02	0 BUMPING	242	224
9/5/2018 14:48	104.74	0	0	-999	560	1	299.26	0 BUMPING	242	224
9/5/2018 14:48	103.56	0	0	-999	560	2	295.9	0 BUMPING	242	224
9/5/2018 14:48	104.1	0	0	-999	560	10	297.44	0 BUMPING	242	224
9/5/2018 14:48	104.71	0	0	-999	560	63	299.19	0 BUMPING	242	224
9/5/2018 14:48	104.38	0	0	-999	560	89	298.25	0 BUMPING	242	224
9/5/2018 14:48	104.31	0	0	-999	560	60	298.04	0 BUMPING	242	224
9/5/2018 14:48	104.3	0	0	-999	560	1	297.22	0 BUMPING	242	224
9/5/2018 14:48	103.96	0	0	-999	560	5	297.05	0 BUMPING	242	224
9/5/2018 14:48	104.13	0	0	-999	560	23	297.51	0 BUMPING	242	224
9/5/2018 14:48	104.37	0	0	-999	560	99	298.76	0 BUMPING	242	224
9/5/2018 14:49	104.38	0	0	-999	560	84	298.25	0 BUMPING	242	224
9/5/2018 14:49	104.28	0	0	-999	560	1	297.94	0 BUMPING	242	224
9/5/2018 14:49	104.43	0	0	-999	560	2	298.26	0 BUMPING	242	224
9/5/2018 14:49	103.96	0	0	-999	560	11	297.05	0 BUMPING	242	224
9/5/2018 14:49	104.22	0	0	-999	560	63	297.77	0 BUMPING	242	224
9/5/2018 14:49	104.54	0	0	-999	560	90	298.33	0 BUMPING	242	224
9/5/2018 14:49	104.66	0	0	-999	560	53	299.05	0 BUMPING	242	224
9/5/2018 14:49	104.68	0	0	-999	560	1	299.1	0 BUMPING	242	224
9/5/2018 14:49	104.37	0	0	-999	560	5	298.21	0 BUMPING	242	224
9/5/2018 14:49	104.41	0	0	-999	560	23	298.67	0 BUMPING	242	224
9/5/2018 14:49	104.65	0	0	-999	560	99	299.02	0 BUMPING	242	224

9/5/2018 14:49	104.06	0	0	-999	560	84	297.32	0 BUMPING	242	224
9/5/2018 14:49	104.49	0	0	-999	560	1	298.13	0 BUMPING	242	224
9/5/2018 14:49	104.42	0	0	-999	560	2	298.35	0 BUMPING	242	224
9/5/2018 14:49	103.86	0	0	-999	560	12	296.76	0 BUMPING	242	224
9/5/2018 14:49	103.99	0	0	-999	560	63	297.44	0 BUMPING	242	224
9/5/2018 14:49	104.24	0	0	-999	560	88	297.84	0 BUMPING	242	224
9/5/2018 14:49	103.96	0	0	-999	560	53	297.05	0 BUMPING	242	224
9/5/2018 14:49	104.35	0	0	-999	560	1	298.25	0 BUMPING	242	224
9/5/2018 14:49	104.14	0	0	-999	560	5	297.55	0 BUMPING	242	224
9/5/2018 14:49	103.68	0	0	-999	560	23	296.23	0 BUMPING	242	224
9/5/2018 14:49	103.62	0	0	-999	560	98	296.36	0 BUMPING	242	224
9/5/2018 14:49	104.84	0	0	-999	560	83	299.56	0 BUMPING	242	224
9/5/2018 14:49	104.89	0	0	-999	560	1	299.7	0 BUMPING	242	224
9/5/2018 14:49	104.61	0	0	-999	560	2	298.69	0 BUMPING	242	224
9/5/2018 14:49	104.42	0	0	-999	560	10	298.35	0 BUMPING	242	224
9/5/2018 14:49	103.51	0	0	-999	560	64	295.77	0 BUMPING	242	224
9/5/2018 14:49	103.06	0	0	-999	560	89	294.47	0 BUMPING	242	224
9/5/2018 14:49	105.04	0	0	-999	560	60	300.54	0 BUMPING	242	224
9/5/2018 14:49	103.28	0	0	-999	560	1	295.1	0 BUMPING	242	224
9/5/2018 14:49	103.79	0	0	-999	560	5	296.55	0 BUMPING	242	224
9/5/2018 14:49	104.05	0	0	-999	560	22	297.29	0 BUMPING	242	224
9/5/2018 14:49	104.11	0	0	-999	560	98	297.48	0 BUMPING	242	224
9/5/2018 14:49	104.34	0	0	-999	560	83	298.11	0 BUMPING	242	224
9/5/2018 14:49	103.42	0	0	-999	560	1	295.49	0 BUMPING	242	224
9/5/2018 14:49	104.75	0	0	-999	560	2	299.31	0 BUMPING	242	224
9/5/2018 14:49	103.77	0	0	-999	560	11	296.48	0 BUMPING	242	224
9/5/2018 14:49	103.8	0	0	-999	560	65	296.57	0 BUMPING	242	224
9/5/2018 14:49	104.62	0	0	-999	560	90	298.45	0 BUMPING	242	224
9/5/2018 14:49	103.92	0	0	-999	560	60	296.91	0 BUMPING	242	224
9/5/2018 14:49	103.5	0	0	-999	560	1	295.71	0 BUMPING	242	224
9/5/2018 14:49	104.08	0	0	-999	560	5	297.25	0 BUMPING	242	224
9/5/2018 14:49	103.92	0	0	-999	560	27	296.93	0 BUMPING	242	224
9/5/2018 14:49	103.98	0	0	-999	560	97	297.08	0 BUMPING	242	224
9/5/2018 14:49	104.13	0	0	-999	560	82	297.51	0 BUMPING	242	224
9/5/2018 14:49	103.72	0	0	-999	560	1	296.07	0 BUMPING	242	224
9/5/2018 14:49	104.22	0	0	-999	560	2	297.79	0 BUMPING	242	224
9/5/2018 14:49	104.71	0	0	-999	560	12	299.19	0 BUMPING	242	224
9/5/2018 14:49	103.49	0	0	-999	560	64	295.7	0 BUMPING	242	224
9/5/2018 14:49	104.25	0	0	-999	560	89	297.87	0 BUMPING	242	224
9/5/2018 14:49	104.37	0	0	-999	560	59	298.21	0 BUMPING	242	224
9/5/2018 14:49	103.71	0	0	-999	560	1	295.39	0 BUMPING	242	224
9/5/2018 14:49	103.48	0	0	-999	560	6	295.68	0 BUMPING	242	224
9/5/2018 14:49	104.65	0	0	-999	560	27	299	0 BUMPING	242	224
9/5/2018 14:49	104.1	0	0	-999	560	97	297.43	0 BUMPING	242	224
9/5/2018 14:49	104.23	0	0	-999	560	81	297.6	0 BUMPING	242	224
9/5/2018 14:49	104.01	0	0	-999	560	1	297.19	0 BUMPING	242	224
9/5/2018 14:49	104.45	0	0	-999	560	2	298.44	0 BUMPING	242	224
9/5/2018 14:49	104.05	0	0	-999	560	11	297.67	0 BUMPING	242	224
9/5/2018 14:50	103.83	0	0	-999	560	80	296.66	0 BUMPING	242	224
9/5/2018 14:50	104.83	0	0	-999	560	88	299.53	0 BUMPING	242	224
9/5/2018 14:50	103.31	0	0	-999	560	59	296.5	0 BUMPING	242	224
9/5/2018 14:50	104.43	0	0	-999	560	1	298.13	0 BUMPING	242	224
9/5/2018 14:50	104.83	0	0	-999	560	6	299.53	0 BUMPING	242	224
9/5/2018 14:50	103.72	0	0	-999	560	26	296.35	0 BUMPING	242	224
9/5/2018 14:50	105.14	0	0	-999	560	97	299.8	0 BUMPING	242	224
9/5/2018 14:50	103.6	0	0	-999	560	77	296.01	0 BUMPING	242	224
9/5/2018 14:50	103.35	0	0	-999	560	1	295.29	0 BUMPING	242	224
9/5/2018 14:50	104.14	0	0	-999	560	2	297.51	0 BUMPING	242	224
9/5/2018 14:50	104.36	0	0	-999	560	13	298.18	0 BUMPING	242	224
9/5/2018 14:50	104.34	0	0	-999	560	80	298.11	0 BUMPING	242	224
9/5/2018 14:50	103.54	0	0	-999	560	95	295.85	0 BUMPING	242	224
9/5/2018 14:50	104.31	0	0	-999	560	59	298.02	0 BUMPING	242	224
9/5/2018 14:50	104.6	0	0	-999	560	1	298.88	0 BUMPING	242	224
9/5/2018 14:50	103.51	0	0	-999	560	6	295.77	0 BUMPING	242	224
9/5/2018 14:50	104.77	0	0	-999	560	27	299.26	0 BUMPING	242	224

9/5/2018 14:50	103.58	0	0	-999	560	95	295.95	0 BUMPING	242	224
9/5/2018 14:50	103.84	0	0	-999	560	76	296.71	0 BUMPING	242	224
9/5/2018 14:50	104.8	0	0	-999	560	1	299.44	0 BUMPING	242	224
9/5/2018 14:50	103.29	0	0	-999	560	3	295.13	0 BUMPING	242	224
9/5/2018 14:50	104.44	0	0	-999	560	13	298.42	0 BUMPING	242	224
9/5/2018 14:50	103.87	0	0	-999	560	80	296.78	0 BUMPING	242	224
9/5/2018 14:50	103.92	0	0	-999	560	95	298.18	0 BUMPING	242	224
9/5/2018 14:50	104.4	0	0	-999	560	50	298.3	0 BUMPING	242	224
9/5/2018 14:50	104.96	0	0	-999	560	2	299.91	0 BUMPING	242	224
9/5/2018 14:50	104.29	0	0	-999	560	6	297.8	0 BUMPING	242	224
9/5/2018 14:50	103.84	0	0	-999	560	32	296.69	0 BUMPING	242	224
9/5/2018 14:50	104.37	0	0	-999	560	94	298.2	0 BUMPING	242	224
9/5/2018 14:50	104.62	0	0	-999	560	77	298.91	0 BUMPING	242	224
9/5/2018 14:50	104.29	0	0	-999	560	1	296.95	0 BUMPING	242	224
9/5/2018 14:50	103.96	0	0	-999	560	3	297.05	0 BUMPING	242	224
9/5/2018 14:50	104.37	0	0	-999	560	13	298.2	0 BUMPING	242	224
9/5/2018 14:50	104.57	0	0	-999	560	81	299.24	0 BUMPING	242	224
9/5/2018 14:50	104.23	0	0	-999	560	94	297.8	0 BUMPING	242	224
9/5/2018 14:50	103.86	0	0	-999	560	49	296.76	0 BUMPING	242	224
9/5/2018 14:50	104.4	0	0	-999	560	1	297.53	0 BUMPING	242	224
9/5/2018 14:50	104.15	0	0	-999	560	7	297.58	0 BUMPING	242	224
9/5/2018 14:50	103.8	0	0	-999	560	31	296.59	0 BUMPING	242	224
9/5/2018 14:50	104.65	0	0	-999	560	93	298.2	0 BUMPING	242	224
9/5/2018 14:50	104.22	0	0	-999	560	74	297.77	0 BUMPING	242	224
9/5/2018 14:50	104.21	0	0	-999	560	1	297.75	0 BUMPING	242	224
9/5/2018 14:50	104.56	0	0	-999	560	3	298.76	0 BUMPING	242	224
9/5/2018 14:50	103.29	0	0	-999	560	13	295.08	0 BUMPING	242	224
9/5/2018 14:50	104.38	0	0	-999	560	80	298.14	0 BUMPING	242	224
9/5/2018 14:50	104.68	0	0	-999	560	94	299.09	0 BUMPING	242	224
9/5/2018 14:50	103.88	0	0	-999	560	49	297.7	0 BUMPING	242	224
9/5/2018 14:50	103.97	0	0	-999	560	1	297.07	0 BUMPING	242	224
9/5/2018 14:50	105.15	0	0	-999	560	6	299.86	0 BUMPING	242	224
9/5/2018 14:50	104	0	0	-999	560	32	297.15	0 BUMPING	242	224
9/5/2018 14:50	104.39	0	0	-999	560	92	298.86	0 BUMPING	242	224
9/5/2018 14:50	104.09	0	0	-999	560	74	297.41	0 BUMPING	242	224
9/5/2018 14:50	104.56	0	0	-999	560	1	298.74	0 BUMPING	242	224
9/5/2018 14:50	104.6	0	0	-999	560	3	298.71	0 BUMPING	242	224
9/5/2018 14:50	104.56	0	0	-999	560	15	298.76	0 BUMPING	242	224
9/5/2018 14:50	104.58	0	0	-999	560	102	298.81	0 BUMPING	242	224
9/5/2018 14:50	104.13	0	0	-999	560	92	297.68	0 BUMPING	242	224
9/5/2018 14:50	103.22	0	0	-999	560	38	294.93	0 BUMPING	242	224
9/5/2018 14:50	104.56	0	0	-999	560	1	298.76	0 BUMPING	242	224
9/5/2018 14:50	103.99	0	0	-999	560	7	297.13	0 BUMPING	242	224
9/5/2018 14:51	104.32	0	0	-999	560	31	297.89	0 BUMPING	242	224
9/5/2018 14:51	104.21	0	0	-999	560	92	297.75	0 BUMPING	242	224
9/5/2018 14:51	104.72	0	0	-999	560	75	299.22	0 BUMPING	242	224
9/5/2018 14:51	103.9	0	0	-999	560	1	296.02	0 BUMPING	242	224
9/5/2018 14:51	104.22	0	0	-999	560	3	297.79	0 BUMPING	242	224
9/5/2018 14:51	104.69	0	0	-999	560	15	299.12	0 BUMPING	242	224
9/5/2018 14:51	104.2	0	0	-999	560	102	297.72	0 BUMPING	242	224
9/5/2018 14:51	104.19	0	0	-999	560	93	297.89	0 BUMPING	242	224
9/5/2018 14:51	103.74	0	0	-999	560	38	296.4	0 BUMPING	242	224
9/5/2018 14:51	104.64	0	0	-999	560	1	298.98	0 BUMPING	242	224
9/5/2018 14:51	103.15	0	0	-999	560	7	294.57	0 BUMPING	242	224
9/5/2018 14:51	105.04	0	0	-999	560	38	300.11	0 BUMPING	242	224
9/5/2018 14:51	104.27	0	0	-999	560	92	297.92	0 BUMPING	242	224
9/5/2018 14:51	104.08	0	0	-999	560	74	296.16	0 BUMPING	242	224
9/5/2018 14:51	104.63	0	0	-999	560	1	298.95	0 BUMPING	242	224
9/5/2018 14:51	104.17	0	0	-999	560	3	297.63	0 BUMPING	242	224
9/5/2018 14:51	103.67	0	0	-999	560	15	296.21	0 BUMPING	242	224
9/5/2018 14:51	104.55	0	0	-999	560	101	297.97	0 BUMPING	242	224
9/5/2018 14:51	103.83	0	0	-999	560	92	296.91	0 BUMPING	242	224
9/5/2018 14:51	103.05	0	0	-999	560	37	294.45	0 BUMPING	242	224
9/5/2018 14:51	104.54	0	0	-999	560	1	298.71	0 BUMPING	242	224
9/5/2018 14:51	104.47	0	0	-999	560	7	297.72	0 BUMPING	242	224

9/5/2018 14:51	104.52	0	0	-999	560	37	298.64	0 BUMPING	242	224
9/5/2018 14:51	103.9	0	0	-999	560	92	296.86	0 BUMPING	242	224
9/5/2018 14:51	103.96	0	0	-999	560	74	297.97	0 BUMPING	242	224
9/5/2018 14:51	104.3	0	0	-999	560	1	298.01	0 BUMPING	242	224
9/5/2018 14:51	104.16	0	0	-999	560	3	297.6	0 BUMPING	242	224
9/5/2018 14:51	104.19	0	0	-999	560	17	297.68	0 BUMPING	242	224
9/5/2018 14:51	104.58	0	0	-999	560	101	298.81	0 BUMPING	242	224
9/5/2018 14:51	104.59	0	0	-999	560	90	298.83	0 BUMPING	242	224
9/5/2018 14:51	98.58	0	0	-999	560	37	292.87	0 BUMPING	242	224
9/5/2018 14:51	104.72	0	0	-999	560	2	299.21	0 BUMPING	242	224
9/5/2018 14:51	104.59	0	0	-999	560	8	298.85	0 BUMPING	242	224
9/5/2018 14:51	104.17	0	0	-999	560	38	297.65	0 BUMPING	242	224
9/5/2018 14:51	104.23	0	0	-999	560	91	297.82	0 BUMPING	242	224
9/5/2018 14:51	104.43	0	0	-999	560	71	298.38	0 BUMPING	242	224
9/5/2018 14:51	104.71	0	0	-999	560	1	299.17	0 BUMPING	242	224
9/5/2018 14:51	104.59	0	0	-999	560	3	299.12	0 BUMPING	242	224
9/5/2018 14:51	103.97	0	0	-999	560	17	297.07	0 BUMPING	242	224
9/5/2018 14:51	104.38	0	0	-999	560	99	298.23	0 BUMPING	242	224
9/5/2018 14:51	104.66	0	0	-999	560	90	298.93	0 BUMPING	242	224
9/5/2018 14:51	99.85	0	0	-999	560	21	285.29	0 BUMPING	242	224
9/5/2018 14:51	104.44	0	0	-999	560	1	298.4	0 BUMPING	242	224
9/5/2018 14:51	104.17	0	0	-999	560	8	297.65	0 BUMPING	242	224
9/5/2018 14:51	105.11	0	0	-999	560	45	300.32	0 BUMPING	242	224
9/5/2018 14:51	103.99	0	0	-999	560	92	297.12	0 BUMPING	242	224
9/5/2018 14:51	103.95	0	0	-999	560	71	297	0 BUMPING	242	224
9/5/2018 14:51	104.67	0	0	-999	560	1	300.13	0 BUMPING	242	224
9/5/2018 14:51	104.23	0	0	-999	560	4	297.82	0 BUMPING	242	224
9/5/2018 14:51	104.34	0	0	-999	560	17	298.11	0 BUMPING	242	224
9/5/2018 14:51	104.13	0	0	-999	560	100	297.63	0 BUMPING	242	224
9/5/2018 14:51	104.68	0	0	-999	560	89	299.1	0 BUMPING	242	224
9/5/2018 14:51	100.98	0	0	-999	560	20	288.53	0 BUMPING	242	224
9/5/2018 14:51	104.7	0	0	-999	560	2	299.15	0 BUMPING	242	224
9/5/2018 14:51	104.97	0	0	-999	560	8	299.77	0 BUMPING	242	224
9/5/2018 14:51	104.32	0	0	-999	560	38	297.68	0 BUMPING	242	224
9/5/2018 14:51	103.97	0	0	-999	560	92	297.07	0 BUMPING	242	224
9/5/2018 14:51	104.32	0	0	-999	560	71	296.88	0 BUMPING	242	224
9/5/2018 14:51	105.22	0	0	-999	560	1	301.29	0 BUMPING	242	224
9/5/2018 14:52	104.71	0	0	-999	560	3	299.17	0 BUMPING	242	224
9/5/2018 14:52	104.87	0	0	-999	560	17	299.65	0 BUMPING	242	224
9/5/2018 14:52	104.45	0	0	-999	560	99	298.76	0 BUMPING	242	224
9/5/2018 14:52	104.35	0	0	-999	560	87	298.14	0 BUMPING	242	224
9/5/2018 14:52	104.36	0	0	-999	560	18	282.95	0 BUMPING	242	224
9/5/2018 14:52	103.83	0	0	-999	560	1	296.81	0 BUMPING	242	224
9/5/2018 14:52	105.34	0	0	-999	560	9	300.97	0 BUMPING	242	224
9/5/2018 14:52	104.74	0	0	-999	560	45	299.26	0 BUMPING	242	224
9/5/2018 14:52	104.81	0	0	-999	560	91	299.31	0 BUMPING	242	224
9/5/2018 14:52	105.29	0	0	-999	560	73	300.83	0 BUMPING	242	224
9/5/2018 14:52	105.1	0	0	-999	560	1	300.3	0 BUMPING	242	224
9/5/2018 14:52	104.95	0	0	-999	560	4	299.86	0 BUMPING	242	224
9/5/2018 14:52	104.32	0	0	-999	560	20	298.08	0 BUMPING	242	224
9/5/2018 14:52	103.53	0	0	-999	560	97	295.8	0 BUMPING	242	224
9/5/2018 14:52	104.8	0	0	-999	560	86	299.43	0 BUMPING	242	224
9/5/2018 14:52	104.9	0	0	-999	560	17	286.94	0 BUMPING	242	224
9/5/2018 14:52	104.01	0	0	-999	560	2	297.17	0 BUMPING	242	224
9/5/2018 14:52	104.96	0	0	-999	560	9	299.89	0 BUMPING	242	224
9/5/2018 14:52	104.56	0	0	-999	560	45	298.69	0 BUMPING	242	224
9/5/2018 14:52	104.78	0	0	-999	560	92	299.38	0 BUMPING	242	224
9/5/2018 14:52	104.69	0	0	-999	560	72	299.14	0 BUMPING	242	224
9/5/2018 14:52	104.57	0	0	-999	560	1	299.31	0 BUMPING	242	224
9/5/2018 14:52	104.4	0	0	-999	560	4	298.28	0 BUMPING	242	224
9/5/2018 14:52	104.58	0	0	-999	560	20	298.81	0 BUMPING	242	224
9/5/2018 14:52	104.03	0	0	-999	560	97	297.24	0 BUMPING	242	224
9/5/2018 14:52	103.73	0	0	-999	560	86	296.13	0 BUMPING	242	224
9/5/2018 14:52	104.63	0	0	-999	560	1	298.95	0 BUMPING	242	224
9/5/2018 14:52	104.57	0	0	-999	560	2	298.78	0 BUMPING	242	224

9/5/2018 14:52	104.82	0	0	-999	560	9	299.5	0 BUMPING	242	224
9/5/2018 14:52	103.9	0	0	-999	560	53	296.86	0 BUMPING	242	224
9/5/2018 14:52	104.72	0	0	-999	560	90	299.22	0 BUMPING	242	224
9/5/2018 14:52	105.1	0	0	-999	560	72	300.28	0 BUMPING	242	224
9/5/2018 14:52	104.59	0	0	-999	560	1	298.85	0 BUMPING	242	224
9/5/2018 14:52	104.5	0	0	-999	560	4	298.59	0 BUMPING	242	224
9/5/2018 14:52	104.38	0	0	-999	560	20	298.25	0 BUMPING	242	224
9/5/2018 14:52	105.02	0	0	-999	560	97	300.06	0 BUMPING	242	224
9/5/2018 14:52	104.68	0	0	-999	560	82	299.09	0 BUMPING	242	224
9/5/2018 14:52	103.99	0	0	-999	560	1	297.12	0 BUMPING	242	224
9/5/2018 14:52	105.48	0	0	-999	560	2	301.14	0 BUMPING	242	224
9/5/2018 14:52	104.4	0	0	-999	560	10	298.3	0 BUMPING	242	224
9/5/2018 14:52	104.92	0	0	-999	560	53	299.79	0 BUMPING	242	224
9/5/2018 14:52	103.97	0	0	-999	560	98	297.07	0 BUMPING	242	224
9/5/2018 14:52	104.12	0	0	-999	560	71	297.85	0 BUMPING	242	224
9/5/2018 14:52	105.09	0	0	-999	560	1	300.27	0 BUMPING	242	224
9/5/2018 14:52	104.9	0	0	-999	560	4	299.74	0 BUMPING	242	224
9/5/2018 14:52	104.82	0	0	-999	560	20	298.54	0 BUMPING	242	224
9/5/2018 14:52	104.42	0	0	-999	560	96	298.35	0 BUMPING	242	224
9/5/2018 14:52	103.92	0	0	-999	560	81	296.91	0 BUMPING	242	224
9/5/2018 14:52	104.53	0	0	-999	560	1	298.78	0 BUMPING	242	224
9/5/2018 14:52	104.32	0	0	-999	560	2	298.08	0 BUMPING	242	224
9/5/2018 14:52	105.52	0	0	-999	560	10	301.48	0 BUMPING	242	224
9/5/2018 14:52	105.97	0	0	-999	560	53	302.78	0 BUMPING	242	224
9/5/2018 14:52	104.07	0	0	-999	560	97	297.75	0 BUMPING	242	224
9/5/2018 14:52	104.44	0	0	-999	560	65	298.4	0 BUMPING	242	224
9/5/2018 14:52	104.6	0	0	-999	560	1	298.88	0 BUMPING	242	224
9/5/2018 14:52	104.31	0	0	-999	560	4	298.67	0 BUMPING	242	224
9/5/2018 14:52	104.54	0	0	-999	560	23	298.69	0 BUMPING	242	224
9/5/2018 14:52	104.56	0	0	-999	560	94	298.76	0 BUMPING	242	224
9/5/2018 14:52	105.14	0	0	-999	560	82	300.56	0 BUMPING	242	224
9/5/2018 14:53	105.09	0	0	-999	560	1	299.51	0 BUMPING	242	224
9/5/2018 14:53	104.04	0	0	-999	560	2	297.27	0 BUMPING	242	224
9/5/2018 14:53	103.93	0	0	-999	560	10	296.96	0 BUMPING	242	224
9/5/2018 14:53	105.08	0	0	-999	560	53	300.23	0 BUMPING	242	224
9/5/2018 14:53	104.91	0	0	-999	560	97	299.75	0 BUMPING	242	224
9/5/2018 14:53	104.77	0	0	-999	560	65	299.34	0 BUMPING	242	224
9/5/2018 14:53	104.07	0	0	-999	560	1	297.36	0 BUMPING	242	224
9/5/2018 14:53	104.6	0	0	-999	560	4	298.64	0 BUMPING	242	224
9/5/2018 14:53	105.04	0	0	-999	560	20	300.39	0 BUMPING	242	224
9/5/2018 14:53	105.64	0	0	-999	560	94	301.84	0 BUMPING	242	224
9/5/2018 14:53	104.4	0	0	-999	560	81	297.43	0 BUMPING	242	224
9/5/2018 14:53	104.24	0	0	-999	560	1	297.84	0 BUMPING	242	224
9/5/2018 14:53	104.59	0	0	-999	560	2	298.85	0 BUMPING	242	224
9/5/2018 14:53	105.21	0	0	-999	560	10	300.33	0 BUMPING	242	224
9/5/2018 14:53	104.43	0	0	-999	560	64	298.38	0 BUMPING	242	224
9/5/2018 14:53	104.83	0	0	-999	560	95	299.53	0 BUMPING	242	224
9/5/2018 14:53	104.69	0	0	-999	560	65	299.12	0 BUMPING	242	224
9/5/2018 14:53	104.32	0	0	-999	560	1	297.97	0 BUMPING	242	224
9/5/2018 14:53	104.79	0	0	-999	560	5	299.41	0 BUMPING	242	224
9/5/2018 14:53	105.05	0	0	-999	560	23	300.16	0 BUMPING	242	224
9/5/2018 14:53	104.28	0	0	-999	560	93	298.59	0 BUMPING	242	224
9/5/2018 14:53	104.32	0	0	-999	560	80	298.06	0 BUMPING	242	224
9/5/2018 14:53	104.35	0	0	-999	560	1	298.14	0 BUMPING	242	224
9/5/2018 14:53	104.71	0	0	-999	560	2	299.24	0 BUMPING	242	224
9/5/2018 14:53	104.27	0	0	-999	560	12	297.92	0 BUMPING	242	224
9/5/2018 14:53	104.89	0	0	-999	560	64	299.7	0 BUMPING	242	224
9/5/2018 14:53	103.87	0	0	-999	560	94	296.33	0 BUMPING	242	224
9/5/2018 14:53	104.11	0	0	-999	560	58	297.46	0 BUMPING	242	224
9/5/2018 14:53	104.55	0	0	-999	560	1	298.73	0 BUMPING	242	224
9/5/2018 14:53	104.31	0	0	-999	560	5	298.04	0 BUMPING	242	224
9/5/2018 14:53	104.51	0	0	-999	560	23	298.26	0 BUMPING	242	224
9/5/2018 14:53	104.77	0	0	-999	560	93	299.36	0 BUMPING	242	224
9/5/2018 14:53	104.86	0	0	-999	560	80	299.62	0 BUMPING	242	224
9/5/2018 14:53	104.72	0	0	-999	560	1	299.21	0 BUMPING	242	224

9/5/2018 14:53	104.22	0	0	-999	560	2	297.85	0 BUMPING	242	224
9/5/2018 14:53	103.96	0	0	-999	560	12	297.05	0 BUMPING	242	224
9/5/2018 14:53	105.07	0	0	-999	560	64	300.2	0 BUMPING	242	224
9/5/2018 14:53	104.51	0	0	-999	560	95	298.47	0 BUMPING	242	224
9/5/2018 14:53	104.33	0	0	-999	560	57	298.09	0 BUMPING	242	224
9/5/2018 14:53	105.02	0	0	-999	560	1	300.08	0 BUMPING	242	224
9/5/2018 14:53	104.35	0	0	-999	560	5	298.13	0 BUMPING	242	224
9/5/2018 14:53	105.28	0	0	-999	560	27	300.81	0 BUMPING	242	224
9/5/2018 14:53	105.32	0	0	-999	560	94	300.92	0 BUMPING	242	224
9/5/2018 14:53	105.05	0	0	-999	560	81	300.16	0 BUMPING	242	224
9/5/2018 14:53	104.29	0	0	-999	560	1	297.99	0 BUMPING	242	224
9/5/2018 14:53	105	0	0	-999	560	2	300.01	0 BUMPING	242	224
9/5/2018 14:53	104.74	0	0	-999	560	12	299.27	0 BUMPING	242	224
9/5/2018 14:53	104.65	0	0	-999	560	64	297.94	0 BUMPING	242	224
9/5/2018 14:53	104.23	0	0	-999	560	93	297.8	0 BUMPING	242	224
9/5/2018 14:53	104.97	0	0	-999	560	56	299.92	0 BUMPING	242	224
9/5/2018 14:53	104.87	0	0	-999	560	1	300.69	0 BUMPING	242	224
9/5/2018 14:53	104.92	0	0	-999	560	6	299.79	0 BUMPING	242	224
9/5/2018 14:53	104.4	0	0	-999	560	27	298.3	0 BUMPING	242	224
9/5/2018 14:53	104.13	0	0	-999	560	92	297.32	0 BUMPING	242	224
9/5/2018 14:53	105.86	0	0	-999	560	79	302.47	0 BUMPING	242	224
9/5/2018 14:53	104.08	0	0	-999	560	1	297.37	0 BUMPING	242	224
9/5/2018 14:53	104.49	0	0	-999	560	2	298.54	0 BUMPING	242	224
9/5/2018 14:53	104.26	0	0	-999	560	13	297.9	0 BUMPING	242	224
9/5/2018 14:53	104.99	0	0	-999	560	79	299.98	0 BUMPING	242	224
9/5/2018 14:54	105.26	0	0	-999	560	93	300.75	0 BUMPING	242	224
9/5/2018 14:54	104.35	0	0	-999	560	56	299.29	0 BUMPING	242	224
9/5/2018 14:54	104.14	0	0	-999	560	1	297.55	0 BUMPING	242	224
9/5/2018 14:54	104.47	0	0	-999	560	6	298.49	0 BUMPING	242	224
9/5/2018 14:54	104.94	0	0	-999	560	27	299.99	0 BUMPING	242	224
9/5/2018 14:54	105.47	0	0	-999	560	93	301.36	0 BUMPING	242	224
9/5/2018 14:54	104.02	0	0	-999	560	77	297.22	0 BUMPING	242	224
9/5/2018 14:54	104.57	0	0	-999	560	1	298.78	0 BUMPING	242	224
9/5/2018 14:54	105.16	0	0	-999	560	2	300.39	0 BUMPING	242	224
9/5/2018 14:54	104.59	0	0	-999	560	13	298.85	0 BUMPING	242	224
9/5/2018 14:54	104.54	0	0	-999	560	79	298.71	0 BUMPING	242	224
9/5/2018 14:54	104.5	0	0	-999	560	91	298.47	0 BUMPING	242	224
9/5/2018 14:54	105.05	0	0	-999	560	56	300.03	0 BUMPING	242	224
9/5/2018 14:54	104.85	0	0	-999	560	1	299.58	0 BUMPING	242	224
9/5/2018 14:54	104.92	0	0	-999	560	6	299.77	0 BUMPING	242	224
9/5/2018 14:54	104.56	0	0	-999	560	27	298.88	0 BUMPING	242	224
9/5/2018 14:54	105.11	0	0	-999	560	93	300.32	0 BUMPING	242	224
9/5/2018 14:54	105.66	0	0	-999	560	78	301.91	0 BUMPING	242	224
9/5/2018 14:54	104.86	0	0	-999	560	1	299.62	0 BUMPING	242	224
9/5/2018 14:54	104.79	0	0	-999	560	2	299.41	0 BUMPING	242	224
9/5/2018 14:54	104.18	0	0	-999	560	13	297.67	0 BUMPING	242	224
9/5/2018 14:54	104.65	0	0	-999	560	78	299.02	0 BUMPING	242	224
9/5/2018 14:54	104.86	0	0	-999	560	90	299.6	0 BUMPING	242	224
9/5/2018 14:54	104.22	0	0	-999	560	47	297.79	0 BUMPING	242	224
9/5/2018 14:54	104.83	0	0	-999	560	1	299.53	0 BUMPING	242	224
9/5/2018 14:54	104.45	0	0	-999	560	6	298.91	0 BUMPING	242	224
9/5/2018 14:54	103.69	0	0	-999	560	32	296.26	0 BUMPING	242	224
9/5/2018 14:54	104.19	0	0	-999	560	93	297.68	0 BUMPING	242	224
9/5/2018 14:54	105.01	0	0	-999	560	77	299.55	0 BUMPING	242	224
9/5/2018 14:54	104.74	0	0	-999	560	1	299.27	0 BUMPING	242	224
9/5/2018 14:54	104.75	0	0	-999	560	3	299.31	0 BUMPING	242	224
9/5/2018 14:54	104.79	0	0	-999	560	13	299.31	0 BUMPING	242	224
9/5/2018 14:54	104.49	0	0	-999	560	99	298.56	0 BUMPING	242	224
9/5/2018 14:54	104.28	0	0	-999	560	89	297.94	0 BUMPING	242	224
9/5/2018 14:54	103.96	0	0	-999	560	44	297.05	0 BUMPING	242	224
9/5/2018 14:54	104.96	0	0	-999	560	1	299.94	0 BUMPING	242	224
9/5/2018 14:54	105.16	0	0	-999	560	7	300.45	0 BUMPING	242	224
9/5/2018 14:54	104.84	0	0	-999	560	32	299.56	0 BUMPING	242	224
9/5/2018 14:54	103.9	0	0	-999	560	92	297.2	0 BUMPING	242	224
9/5/2018 14:54	104.31	0	0	-999	560	82	298.02	0 BUMPING	242	224

9/5/2018 14:54	105.02	0	0	-999	560	1	300.78	0 BUMPING	242	224
9/5/2018 14:54	104.62	0	0	-999	560	3	299.14	0 BUMPING	242	224
9/5/2018 14:54	104.69	0	0	-999	560	15	299.12	0 BUMPING	242	224
9/5/2018 14:54	104.17	0	0	-999	560	99	297.65	0 BUMPING	242	224
9/5/2018 14:54	104.65	0	0	-999	560	89	299	0 BUMPING	242	224
9/5/2018 14:54	103.79	0	0	-999	560	44	299.43	0 BUMPING	242	224
9/5/2018 14:54	105.11	0	0	-999	560	2	300.33	0 BUMPING	242	224
9/5/2018 14:54	104.69	0	0	-999	560	7	299.14	0 BUMPING	242	224
9/5/2018 14:54	104.07	0	0	-999	560	32	297.36	0 BUMPING	242	224
9/5/2018 14:54	104.86	0	0	-999	560	93	299.6	0 BUMPING	242	224
9/5/2018 14:54	105.11	0	0	-999	560	81	300.32	0 BUMPING	242	224
9/5/2018 14:54	104.02	0	0	-999	560	1	297.22	0 BUMPING	242	224
9/5/2018 14:54	105.36	0	0	-999	560	3	301.36	0 BUMPING	242	224
9/5/2018 14:54	105.09	0	0	-999	560	15	300.27	0 BUMPING	242	224
9/5/2018 14:54	104.56	0	0	-999	560	99	298.74	0 BUMPING	242	224
9/5/2018 14:54	104.16	0	0	-999	560	89	297.8	0 BUMPING	242	224
9/5/2018 14:54	103.2	0	0	-999	560	33	294.86	0 BUMPING	242	224
9/5/2018 14:54	104.04	0	0	-999	560	1	297.27	0 BUMPING	242	224
9/5/2018 14:54	104.8	0	0	-999	560	7	300.2	0 BUMPING	242	224
9/5/2018 14:55	105.35	0	0	-999	560	32	300.1	0 BUMPING	242	224
9/5/2018 14:55	104.5	0	0	-999	560	93	298.57	0 BUMPING	242	224
9/5/2018 14:55	104.89	0	0	-999	560	81	299.7	0 BUMPING	242	224
9/5/2018 14:55	105.31	0	0	-999	560	1	300.76	0 BUMPING	242	224
9/5/2018 14:55	103.98	0	0	-999	560	3	297.1	0 BUMPING	242	224
9/5/2018 14:55	104.31	0	0	-999	560	15	298.02	0 BUMPING	242	224
9/5/2018 14:55	105.12	0	0	-999	560	97	300.64	0 BUMPING	242	224
9/5/2018 14:55	105.6	0	0	-999	560	85	301.72	0 BUMPING	242	224
9/5/2018 14:55	102.85	0	0	-999	560	33	293.87	0 BUMPING	242	224
9/5/2018 14:55	104.07	0	0	-999	560	1	297.55	0 BUMPING	242	224
9/5/2018 14:55	104.68	0	0	-999	560	8	299.1	0 BUMPING	242	224
9/5/2018 14:55	104.97	0	0	-999	560	37	299.92	0 BUMPING	242	224
9/5/2018 14:55	104.56	0	0	-999	560	99	298.76	0 BUMPING	242	224
9/5/2018 14:55	104.53	0	0	-999	560	76	298.66	0 BUMPING	242	224
9/5/2018 14:55	104.32	0	0	-999	560	1	298.06	0 BUMPING	242	224
9/5/2018 14:55	105.35	0	0	-999	560	3	301	0 BUMPING	242	224
9/5/2018 14:55	105.27	0	0	-999	560	15	300.2	0 BUMPING	242	224
9/5/2018 14:55	105.18	0	0	-999	560	97	300.52	0 BUMPING	242	224
9/5/2018 14:55	103.91	0	0	-999	560	86	296.9	0 BUMPING	242	224
9/5/2018 14:55	104.88	0	0	-999	560	44	299.67	0 BUMPING	242	224
9/5/2018 14:55	104.69	0	0	-999	560	1	299.12	0 BUMPING	242	224
9/5/2018 14:55	105.04	0	0	-999	560	6	299.92	0 BUMPING	242	224
9/5/2018 14:55	104.65	0	0	-999	560	27	299.09	0 BUMPING	242	224
9/5/2018 14:55	103.87	0	0	-999	560	100	297.15	0 BUMPING	242	224
9/5/2018 14:55	104.48	0	0	-999	560	83	298.52	0 BUMPING	242	224
9/5/2018 14:55	104.65	0	0	-999	560	2	299	0 BUMPING	242	224
9/5/2018 14:55	104.37	0	0	-999	560	3	298.2	0 BUMPING	242	224
9/5/2018 14:55	105.13	0	0	-999	560	13	300.39	0 BUMPING	242	224
9/5/2018 14:55	104.62	0	0	-999	560	79	298.91	0 BUMPING	242	224
9/5/2018 14:55	104.28	0	0	-999	560	87	297.96	0 BUMPING	242	224
9/5/2018 14:55	104.07	0	0	-999	560	53	297.36	0 BUMPING	242	224
9/5/2018 14:55	104.41	0	0	-999	560	2	298.32	0 BUMPING	242	224
9/5/2018 14:55	104.55	0	0	-999	560	7	298.73	0 BUMPING	242	224
9/5/2018 14:55	104.84	0	0	-999	560	31	299.55	0 BUMPING	242	224
9/5/2018 14:55	103.89	0	0	-999	560	98	296.83	0 BUMPING	242	224
9/5/2018 14:55	104.4	0	0	-999	560	82	298.64	0 BUMPING	242	224
9/5/2018 14:55	104.23	0	0	-999	560	1	297.82	0 BUMPING	242	224
9/5/2018 14:55	105.37	0	0	-999	560	3	301.05	0 BUMPING	242	224
9/5/2018 14:55	105.07	0	0	-999	560	13	299.29	0 BUMPING	242	224
9/5/2018 14:55	104.32	0	0	-999	560	94	298.08	0 BUMPING	242	224
9/5/2018 14:55	104.4	0	0	-999	560	86	298.3	0 BUMPING	242	224
9/5/2018 14:55	104.85	0	0	-999	560	44	299.58	0 BUMPING	242	224
9/5/2018 14:55	105.54	0	0	-999	560	1	301.04	0 BUMPING	242	224
9/5/2018 14:55	104.4	0	0	-999	560	6	298.28	0 BUMPING	242	224
9/5/2018 14:55	104.32	0	0	-999	560	31	298.06	0 BUMPING	242	224
9/5/2018 14:55	103.72	0	0	-999	560	98	295.75	0 BUMPING	242	224

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9/5/2018 14:55	105.41	0	0	-999	560	1	301.17	0 BUMPING	242	224
9/5/2018 14:55	104.79	0	0	-999	560	3	299.41	0 BUMPING	242	224
9/5/2018 14:55	104.42	0	0	-999	560	15	298.35	0 BUMPING	242	224
9/5/2018 14:55	104.17	0	0	-999	560	94	297.65	0 BUMPING	242	224
9/5/2018 14:55	104.65	0	0	-999	560	87	299	0 BUMPING	242	224
9/5/2018 14:55	103.32	0	0	-999	560	45	297.56	0 BUMPING	242	224
9/5/2018 14:55	104.39	0	0	-999	560	2	298.26	0 BUMPING	242	224
9/5/2018 14:55	104.75	0	0	-999	560	7	299.29	0 BUMPING	242	224
9/5/2018 14:55	104	0	0	-999	560	31	296.96	0 BUMPING	242	224
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9/5/2018 14:55	104.58	0	0	-999	560	79	298.81	0 BUMPING	242	224
9/5/2018 14:55	105.11	0	0	-999	560	1	300.32	0 BUMPING	242	224
9/5/2018 14:56	104.74	0	0	-999	560	3	299.26	0 BUMPING	242	224
9/5/2018 14:56	104.51	0	0	-999	560	15	298.62	0 BUMPING	242	224
9/5/2018 14:56	104.2	0	0	-999	560	95	297.72	0 BUMPING	242	224
9/5/2018 14:56	105.63	0	0	-999	560	86	302.06	0 BUMPING	242	224
9/5/2018 14:56	103.84	0	0	-999	560	33	296.71	0 BUMPING	242	224
9/5/2018 14:56	104.03	0	0	-999	560	1	297.24	0 BUMPING	242	224
9/5/2018 14:56	104.72	0	0	-999	560	7	299.21	0 BUMPING	242	224
9/5/2018 14:56	105.22	0	0	-999	560	31	300.64	0 BUMPING	242	224
9/5/2018 14:56	104.49	0	0	-999	560	97	298.56	0 BUMPING	242	224
9/5/2018 14:56	104.89	0	0	-999	560	78	299.14	0 BUMPING	242	224
9/5/2018 14:56	104.1	0	0	-999	560	1	297.43	0 BUMPING	242	224
9/5/2018 14:56	104.78	0	0	-999	560	3	299.38	0 BUMPING	242	224
9/5/2018 14:56	104.68	0	0	-999	560	15	299.09	0 BUMPING	242	224
9/5/2018 14:56	104.25	0	0	-999	560	95	297.49	0 BUMPING	242	224
9/5/2018 14:56	104.01	0	0	-999	560	85	297.19	0 BUMPING	242	224
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9/5/2018 14:56	104.47	0	0	-999	560	37	298.49	0 BUMPING	242	224
9/5/2018 14:56	104.87	0	0	-999	560	96	298.74	0 BUMPING	242	224
9/5/2018 14:56	104.55	0	0	-999	560	73	298.73	0 BUMPING	242	224
9/5/2018 14:56	104.67	0	0	-999	560	1	299.07	0 BUMPING	242	224
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9/5/2018 14:56	103.93	0	0	-999	560	15	296.64	0 BUMPING	242	224
9/5/2018 14:56	105.05	0	0	-999	560	95	300.15	0 BUMPING	242	224
9/5/2018 14:56	104.33	0	0	-999	560	86	298.09	0 BUMPING	242	224
9/5/2018 14:56	104.13	0	0	-999	560	34	297.53	0 BUMPING	242	224
9/5/2018 14:56	104.62	0	0	-999	560	2	298.93	0 BUMPING	242	224
9/5/2018 14:56	104.76	0	0	-999	560	8	299.33	0 BUMPING	242	224
9/5/2018 14:56	104.66	0	0	-999	560	37	298.69	0 BUMPING	242	224
9/5/2018 14:56	104.71	0	0	-999	560	95	299.19	0 BUMPING	242	224
9/5/2018 14:56	103.61	0	0	-999	560	72	296.04	0 BUMPING	242	224
9/5/2018 14:56	104.89	0	0	-999	560	2	299.68	0 BUMPING	242	224
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9/5/2018 14:56	104.21	0	0	-999	560	18	297.75	0 BUMPING	242	224
9/5/2018 14:56	104.57	0	0	-999	560	94	298.79	0 BUMPING	242	224
9/5/2018 14:56	104.17	0	0	-999	560	86	297.65	0 BUMPING	242	224
9/5/2018 14:56	104.39	0	0	-999	560	41	298.26	0 BUMPING	242	224
9/5/2018 14:56	104.67	0	0	-999	560	2	299.07	0 BUMPING	242	224
9/5/2018 14:56	105.14	0	0	-999	560	8	300.42	0 BUMPING	242	224
9/5/2018 14:56	104.87	0	0	-999	560	37	299.65	0 BUMPING	242	224
9/5/2018 14:56	105.13	0	0	-999	560	95	300.37	0 BUMPING	242	224
9/5/2018 14:56	104.49	0	0	-999	560	72	298.54	0 BUMPING	242	224
9/5/2018 14:56	104.91	0	0	-999	560	1	299.99	0 BUMPING	242	224
9/5/2018 14:56	105.39	0	0	-999	560	4	301.12	0 BUMPING	242	224
9/5/2018 14:56	104.11	0	0	-999	560	18	297.46	0 BUMPING	242	224
9/5/2018 14:56	104.28	0	0	-999	560	94	297.2	0 BUMPING	242	224
9/5/2018 14:56	103.81	0	0	-999	560	84	296.62	0 BUMPING	242	224
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9/5/2018 14:56	105.44	0	0	-999	560	8	301.4	0 BUMPING	242	224
9/5/2018 14:56	104.2	0	0	-999	560	43	297.73	0 BUMPING	242	224

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9/5/2018 14:56	104.73	0	0	-999	560	72	298.33	0 BUMPING	242	224
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9/5/2018 14:56	104.31	0	0	-999	560	4	298.02	0 BUMPING	242	224
9/5/2018 14:56	104.2	0	0	-999	560	17	297.72	0 BUMPING	242	224
9/5/2018 14:56	105.34	0	0	-999	560	95	300.98	0 BUMPING	242	224
9/5/2018 14:56	104.82	0	0	-999	560	84	299.5	0 BUMPING	242	224
9/5/2018 14:56	100.91	0	0	-999	560	23	288.32	0 BUMPING	242	224
9/5/2018 14:57	104.73	0	0	-999	560	2	298.25	0 BUMPING	242	224
9/5/2018 14:57	104.21	0	0	-999	560	9	297.75	0 BUMPING	242	224
9/5/2018 14:57	104.84	0	0	-999	560	43	299.56	0 BUMPING	242	224
9/5/2018 14:57	104.17	0	0	-999	560	94	298.57	0 BUMPING	242	224
9/5/2018 14:57	103.9	0	0	-999	560	65	296.88	0 BUMPING	242	224
9/5/2018 14:57	104.2	0	0	-999	560	1	297.73	0 BUMPING	242	224
9/5/2018 14:57	105.31	0	0	-999	560	4	299.86	0 BUMPING	242	224
9/5/2018 14:57	103.72	0	0	-999	560	20	296.35	0 BUMPING	242	224
9/5/2018 14:57	105.4	0	0	-999	560	95	301.16	0 BUMPING	242	224
9/5/2018 14:57	104.93	0	0	-999	560	92	299.82	0 BUMPING	242	224
9/5/2018 14:57	103.75	0	0	-999	560	23	282.08	0 BUMPING	242	224
9/5/2018 14:57	104.74	0	0	-999	560	2	299.26	0 BUMPING	242	224
9/5/2018 14:57	104.79	0	0	-999	560	9	299.41	0 BUMPING	242	224
9/5/2018 14:57	104.87	0	0	-999	560	44	298.79	0 BUMPING	242	224
9/5/2018 14:57	104.04	0	0	-999	560	92	297.25	0 BUMPING	242	224
9/5/2018 14:57	103.96	0	0	-999	560	65	297.03	0 BUMPING	242	224
9/5/2018 14:57	104.97	0	0	-999	560	1	299.92	0 BUMPING	242	224
9/5/2018 14:57	104.62	0	0	-999	560	3	298.23	0 BUMPING	242	224
9/5/2018 14:57	104.24	0	0	-999	560	17	297.84	0 BUMPING	242	224
9/5/2018 14:57	104.88	0	0	-999	560	95	299.67	0 BUMPING	242	224
9/5/2018 14:57	104.86	0	0	-999	560	91	298.73	0 BUMPING	242	224
9/5/2018 14:57	104.34	0	0	-999	560	1	298.13	0 BUMPING	242	224
9/5/2018 14:57	105.02	0	0	-999	560	2	300.06	0 BUMPING	242	224
9/5/2018 14:57	103.4	0	0	-999	560	9	295.17	0 BUMPING	242	224
9/5/2018 14:57	104.87	0	0	-999	560	51	299.65	0 BUMPING	242	224
9/5/2018 14:57	104.72	0	0	-999	560	90	299.21	0 BUMPING	242	224
9/5/2018 14:57	105.12	0	0	-999	560	65	300.35	0 BUMPING	242	224
9/5/2018 14:57	104.49	0	0	-999	560	1	298.81	0 BUMPING	242	224
9/5/2018 14:57	104.49	0	0	-999	560	4	298.56	0 BUMPING	242	224
9/5/2018 14:57	104.13	0	0	-999	560	20	297.51	0 BUMPING	242	224
9/5/2018 14:57	104.1	0	0	-999	560	102	298.04	0 BUMPING	242	224
9/5/2018 14:57	104.07	0	0	-999	560	88	297.34	0 BUMPING	242	224
9/5/2018 14:57	104.75	0	0	-999	560	1	299.31	0 BUMPING	242	224
9/5/2018 14:57	105.06	0	0	-999	560	2	300.18	0 BUMPING	242	224
9/5/2018 14:57	104.53	0	0	-999	560	10	298.67	0 BUMPING	242	224
9/5/2018 14:57	104.46	0	0	-999	560	52	298.45	0 BUMPING	242	224
9/5/2018 14:57	105.55	0	0	-999	560	90	301.57	0 BUMPING	242	224
9/5/2018 14:57	104.82	0	0	-999	560	65	299.51	0 BUMPING	242	224
9/5/2018 14:57	104.37	0	0	-999	560	1	298.21	0 BUMPING	242	224
9/5/2018 14:57	105.22	0	0	-999	560	4	300.63	0 BUMPING	242	224
9/5/2018 14:57	104.36	0	0	-999	560	20	298.18	0 BUMPING	242	224
9/5/2018 14:57	104.39	0	0	-999	560	100	298.26	0 BUMPING	242	224
9/5/2018 14:57	104.87	0	0	-999	560	87	299.63	0 BUMPING	242	224
9/5/2018 14:57	104.89	0	0	-999	560	1	299.68	0 BUMPING	242	224
9/5/2018 14:57	104.8	0	0	-999	560	2	299.77	0 BUMPING	242	224
9/5/2018 14:57	104.46	0	0	-999	560	10	298.45	0 BUMPING	242	224
9/5/2018 14:57	105.13	0	0	-999	560	43	300.11	0 BUMPING	242	224
9/5/2018 14:57	105.19	0	0	-999	560	89	300.54	0 BUMPING	242	224
9/5/2018 14:57	104.14	0	0	-999	560	60	297.56	0 BUMPING	242	224
9/5/2018 14:57	104.7	0	0	-999	560	1	299.15	0 BUMPING	242	224
9/5/2018 14:57	104.77	0	0	-999	560	4	299.36	0 BUMPING	242	224
9/5/2018 14:57	105.08	0	0	-999	560	23	300.25	0 BUMPING	242	224
9/5/2018 14:57	104.71	0	0	-999	560	100	299.19	0 BUMPING	242	224
9/5/2018 14:57	104.77	0	0	-999	560	87	299.34	0 BUMPING	242	224
9/5/2018 14:57	104.44	0	0	-999	560	1	298.4	0 BUMPING	242	224
9/5/2018 14:57	104.87	0	0	-999	560	2	299.65	0 BUMPING	242	224
9/5/2018 14:57	104.99	0	0	-999	560	10	299.98	0 BUMPING	242	224

9/5/2018 14:57	104.49	0	0	-999	560	52	297.68	0 BUMPING	242	224
9/5/2018 14:57	104.96	0	0	-999	560	89	299.89	0 BUMPING	242	224
9/5/2018 14:58	104.9	0	0	-999	560	60	299.74	0 BUMPING	242	224
9/5/2018 14:58	104.54	0	0	-999	560	1	298.18	0 BUMPING	242	224
9/5/2018 14:58	104.4	0	0	-999	560	5	298.28	0 BUMPING	242	224
9/5/2018 14:58	105.43	0	0	-999	560	23	301.24	0 BUMPING	242	224
9/5/2018 14:58	105.17	0	0	-999	560	100	300.49	0 BUMPING	242	224
9/5/2018 14:58	103.92	0	0	-999	560	86	296.36	0 BUMPING	242	224
9/5/2018 14:58	104.19	0	0	-999	560	1	298.13	0 BUMPING	242	224
9/5/2018 14:58	104.62	0	0	-999	560	2	298.91	0 BUMPING	242	224
9/5/2018 14:58	105.58	0	0	-999	560	10	301.67	0 BUMPING	242	224
9/5/2018 14:58	104.26	0	0	-999	560	63	297.89	0 BUMPING	242	224
9/5/2018 14:58	105.06	0	0	-999	560	89	300.18	0 BUMPING	242	224
9/5/2018 14:58	105.33	0	0	-999	560	61	300.95	0 BUMPING	242	224
9/5/2018 14:58	103.75	0	0	-999	560	1	297.25	0 BUMPING	242	224
9/5/2018 14:58	104.55	0	0	-999	560	5	298.73	0 BUMPING	242	224
9/5/2018 14:58	105.18	0	0	-999	560	23	300.52	0 BUMPING	242	224
9/5/2018 14:58	104.81	0	0	-999	560	99	299.38	0 BUMPING	242	224
9/5/2018 14:58	105.35	0	0	-999	560	84	301.02	0 BUMPING	242	224
9/5/2018 14:58	104.23	0	0	-999	560	1	297.82	0 BUMPING	242	224
9/5/2018 14:58	104.85	0	0	-999	560	2	299.58	0 BUMPING	242	224
9/5/2018 14:58	104.84	0	0	-999	560	12	299.56	0 BUMPING	242	224
9/5/2018 14:58	105.49	0	0	-999	560	64	301.41	0 BUMPING	242	224
9/5/2018 14:58	105.19	0	0	-999	560	89	300.56	0 BUMPING	242	224
9/5/2018 14:58	103.86	0	0	-999	560	60	297.67	0 BUMPING	242	224
9/5/2018 14:58	104.63	0	0	-999	560	1	298.95	0 BUMPING	242	224
9/5/2018 14:58	105.14	0	0	-999	560	5	300.4	0 BUMPING	242	224
9/5/2018 14:58	104.78	0	0	-999	560	23	299.74	0 BUMPING	242	224
9/5/2018 14:58	104.58	0	0	-999	560	99	298.81	0 BUMPING	242	224
9/5/2018 14:58	104.1	0	0	-999	560	83	297.44	0 BUMPING	242	224
9/5/2018 14:58	105.37	0	0	-999	560	1	301.05	0 BUMPING	242	224
9/5/2018 14:58	104.31	0	0	-999	560	2	298.04	0 BUMPING	242	224
9/5/2018 14:58	105.06	0	0	-999	560	12	300.18	0 BUMPING	242	224
9/5/2018 14:58	104.29	0	0	-999	560	63	298.59	0 BUMPING	242	224
9/5/2018 14:58	105.16	0	0	-999	560	90	301.77	0 BUMPING	242	224
9/5/2018 14:58	105.29	0	0	-999	560	53	300.83	0 BUMPING	242	224
9/5/2018 14:58	105.26	0	0	-999	560	1	300.75	0 BUMPING	242	224
9/5/2018 14:58	104.83	0	0	-999	560	5	300.73	0 BUMPING	242	224
9/5/2018 14:58	105.18	0	0	-999	560	27	300.52	0 BUMPING	242	224
9/5/2018 14:58	104.87	0	0	-999	560	98	299.63	0 BUMPING	242	224
9/5/2018 14:58	104.98	0	0	-999	560	82	299.96	0 BUMPING	242	224
9/5/2018 14:58	104.37	0	0	-999	560	1	298.21	0 BUMPING	242	224
9/5/2018 14:58	105	0	0	-999	560	2	300.01	0 BUMPING	242	224
9/5/2018 14:58	104.96	0	0	-999	560	12	299.91	0 BUMPING	242	224
9/5/2018 14:58	104.78	0	0	-999	560	64	299.82	0 BUMPING	242	224
9/5/2018 14:58	104.2	0	0	-999	560	88	297.73	0 BUMPING	242	224
9/5/2018 14:58	104.35	0	0	-999	560	53	298.14	0 BUMPING	242	224
9/5/2018 14:58	104.75	0	0	-999	560	1	299.87	0 BUMPING	242	224
9/5/2018 14:58	104.97	0	0	-999	560	6	299.92	0 BUMPING	242	224
9/5/2018 14:58	105.22	0	0	-999	560	26	300.63	0 BUMPING	242	224
9/5/2018 14:58	105.34	0	0	-999	560	98	301.09	0 BUMPING	242	224
9/5/2018 14:58	104.59	0	0	-999	560	79	298.85	0 BUMPING	242	224
9/5/2018 14:58	104.99	0	0	-999	560	1	299.98	0 BUMPING	242	224
9/5/2018 14:58	105.09	0	0	-999	560	2	300.27	0 BUMPING	242	224
9/5/2018 14:58	104.83	0	0	-999	560	12	299.8	0 BUMPING	242	224
9/5/2018 14:58	104.46	0	0	-999	560	79	298.47	0 BUMPING	242	224
9/5/2018 14:58	104.53	0	0	-999	560	89	298.66	0 BUMPING	242	224
9/5/2018 14:58	104.9	0	0	-999	560	54	300.64	0 BUMPING	242	224
9/5/2018 14:58	105.52	0	0	-999	560	2	301.53	0 BUMPING	242	224
9/5/2018 14:58	105.39	0	0	-999	560	6	301.12	0 BUMPING	242	224
9/5/2018 14:58	104.59	0	0	-999	560	26	299.91	0 BUMPING	242	224
9/5/2018 14:59	104.33	0	0	-999	560	97	298.01	0 BUMPING	242	224
9/5/2018 14:59	104.39	0	0	-999	560	79	298.26	0 BUMPING	242	224
9/5/2018 14:59	105.51	0	0	-999	560	1	301.46	0 BUMPING	242	224
9/5/2018 14:59	104.26	0	0	-999	560	2	297.75	0 BUMPING	242	224

9/5/2018 14:59	105.14	0	0	-999	560	13	300.42	0 BUMPING	242	224
9/5/2018 14:59	104.91	0	0	-999	560	80	299.75	0 BUMPING	242	224
9/5/2018 14:59	105.36	0	0	-999	560	89	300.64	0 BUMPING	242	224
9/5/2018 14:59	104.75	0	0	-999	560	60	300.37	0 BUMPING	242	224
9/5/2018 14:59	104.69	0	0	-999	560	1	299.14	0 BUMPING	242	224
9/5/2018 14:59	105.37	0	0	-999	560	6	301.07	0 BUMPING	242	224
9/5/2018 14:59	104.65	0	0	-999	560	27	299.51	0 BUMPING	242	224
9/5/2018 14:59	104.09	0	0	-999	560	97	296.9	0 BUMPING	242	224
9/5/2018 14:59	104.87	0	0	-999	560	79	299.65	0 BUMPING	242	224
9/5/2018 14:59	105.07	0	0	-999	560	1	300.21	0 BUMPING	242	224
9/5/2018 14:59	105.54	0	0	-999	560	2	301.55	0 BUMPING	242	224
9/5/2018 14:59	104.04	0	0	-999	560	12	297.24	0 BUMPING	242	224
9/5/2018 14:59	105.38	0	0	-999	560	79	300.49	0 BUMPING	242	224
9/5/2018 14:59	105.44	0	0	-999	560	87	301.26	0 BUMPING	242	224
9/5/2018 14:59	104.69	0	0	-999	560	51	299.14	0 BUMPING	242	224
9/5/2018 14:59	104.95	0	0	-999	560	2	299.86	0 BUMPING	242	224
9/5/2018 14:59	104.95	0	0	-999	560	6	299.36	0 BUMPING	242	224
9/5/2018 14:59	104.74	0	0	-999	560	31	299.27	0 BUMPING	242	224
9/5/2018 14:59	104.58	0	0	-999	560	95	298.81	0 BUMPING	242	224
9/5/2018 14:59	104.57	0	0	-999	560	76	298.78	0 BUMPING	242	224
9/5/2018 14:59	104.95	0	0	-999	560	1	299.86	0 BUMPING	242	224
9/5/2018 14:59	105.35	0	0	-999	560	3	301	0 BUMPING	242	224
9/5/2018 14:59	104.58	0	0	-999	560	13	298.81	0 BUMPING	242	224
9/5/2018 14:59	104.5	0	0	-999	560	79	297.82	0 BUMPING	242	224
9/5/2018 14:59	104.46	0	0	-999	560	94	298.47	0 BUMPING	242	224
9/5/2018 14:59	104.6	0	0	-999	560	50	298.88	0 BUMPING	242	224
9/5/2018 14:59	104.86	0	0	-999	560	2	298.83	0 BUMPING	242	224
9/5/2018 14:59	104.44	0	0	-999	560	6	298.9	0 BUMPING	242	224
9/5/2018 14:59	105.3	0	0	-999	560	31	300.87	0 BUMPING	242	224
9/5/2018 14:59	104.97	0	0	-999	560	94	300.45	0 BUMPING	242	224
9/5/2018 14:59	104.59	0	0	-999	560	73	298.83	0 BUMPING	242	224
9/5/2018 14:59	105.01	0	0	-999	560	1	300.03	0 BUMPING	242	224
9/5/2018 14:59	105.34	0	0	-999	560	3	300.27	0 BUMPING	242	224
9/5/2018 14:59	105.16	0	0	-999	560	15	300.47	0 BUMPING	242	224
9/5/2018 14:59	104.81	0	0	-999	560	95	299.48	0 BUMPING	242	224
9/5/2018 14:59	104.35	0	0	-999	560	94	298.16	0 BUMPING	242	224
9/5/2018 14:59	103.62	0	0	-999	560	50	297.6	0 BUMPING	242	224
9/5/2018 14:59	104.98	0	0	-999	560	2	299.94	0 BUMPING	242	224
9/5/2018 14:59	105.29	0	0	-999	560	7	300.85	0 BUMPING	242	224
9/5/2018 14:59	105.22	0	0	-999	560	31	301.12	0 BUMPING	242	224
9/5/2018 14:59	105.3	0	0	-999	560	95	300.87	0 BUMPING	242	224
9/5/2018 14:59	104.7	0	0	-999	560	74	299.15	0 BUMPING	242	224
9/5/2018 14:59	104.29	0	0	-999	560	1	297.99	0 BUMPING	242	224
9/5/2018 14:59	104.3	0	0	-999	560	3	297.63	0 BUMPING	242	224
9/5/2018 14:59	104.97	0	0	-999	560	15	299.92	0 BUMPING	242	224
9/5/2018 14:59	104.91	0	0	-999	560	95	299.75	0 BUMPING	242	224
9/5/2018 14:59	104.62	0	0	-999	560	93	298.91	0 BUMPING	242	224
9/5/2018 14:59	103.23	0	0	-999	560	39	294.94	0 BUMPING	242	224
9/5/2018 14:59	105.08	0	0	-999	560	2	300.25	0 BUMPING	242	224
9/5/2018 14:59	104.58	0	0	-999	560	7	298.81	0 BUMPING	242	224
9/5/2018 14:59	104.49	0	0	-999	560	31	298.16	0 BUMPING	242	224
9/5/2018 14:59	105.27	0	0	-999	560	92	300.78	0 BUMPING	242	224
9/5/2018 14:59	105.71	0	0	-999	560	75	302.03	0 BUMPING	242	224
9/5/2018 14:59	105.31	0	0	-999	560	2	301.74	0 BUMPING	242	224
9/5/2018 14:59	105.84	0	0	-999	560	3	302.42	0 BUMPING	242	224
9/5/2018 15:00	104.41	0	0	-999	560	15	298.32	0 BUMPING	242	224
9/5/2018 15:00	104.31	0	0	-999	560	103	298.38	0 BUMPING	242	224
9/5/2018 15:00	104.65	0	0	-999	560	91	299	0 BUMPING	242	224
9/5/2018 15:00	104.26	0	0	-999	560	39	297.89	0 BUMPING	242	224
9/5/2018 15:00	105.28	0	0	-999	560	2	300.81	0 BUMPING	242	224
9/5/2018 15:00	105.09	0	0	-999	560	8	300.27	0 BUMPING	242	224
9/5/2018 15:00	104.23	0	0	-999	560	37	297.82	0 BUMPING	242	224
9/5/2018 15:00	104.87	0	0	-999	560	91	299.65	0 BUMPING	242	224
9/5/2018 15:00	104.89	0	0	-999	560	74	300.71	0 BUMPING	242	224
9/5/2018 15:00	104.22	0	0	-999	560	1	297.79	0 BUMPING	242	224

9/5/2018 15:00	105.08	0	0	-999	560	3	300.25	0 BUMPING	242	224
9/5/2018 15:00	104.57	0	0	-999	560	15	299.39	0 BUMPING	242	224
9/5/2018 15:00	105.18	0	0	-999	560	101	300.52	0 BUMPING	242	224
9/5/2018 15:00	105.31	0	0	-999	560	91	300.88	0 BUMPING	242	224
9/5/2018 15:00	103.93	0	0	-999	560	39	296.96	0 BUMPING	242	224
9/5/2018 15:00	105.37	0	0	-999	560	2	301.41	0 BUMPING	242	224
9/5/2018 15:00	105.47	0	0	-999	560	8	301.34	0 BUMPING	242	224
9/5/2018 15:00	104.7	0	0	-999	560	37	299.15	0 BUMPING	242	224
9/5/2018 15:00	104.5	0	0	-999	560	91	297.8	0 BUMPING	242	224
9/5/2018 15:00	105.11	0	0	-999	560	71	300.33	0 BUMPING	242	224
9/5/2018 15:00	105.32	0	0	-999	560	1	300.92	0 BUMPING	242	224
9/5/2018 15:00	105.95	0	0	-999	560	3	301.91	0 BUMPING	242	224
9/5/2018 15:00	104.61	0	0	-999	560	15	299.39	0 BUMPING	242	224
9/5/2018 15:00	104.61	0	0	-999	560	101	298.9	0 BUMPING	242	224
9/5/2018 15:00	105.09	0	0	-999	560	91	300.27	0 BUMPING	242	224
9/5/2018 15:00	99.1	0	0	-999	560	23	283.15	0 BUMPING	242	224
9/5/2018 15:00	104.8	0	0	-999	560	2	299.43	0 BUMPING	242	224
9/5/2018 15:00	105.14	0	0	-999	560	8	300.42	0 BUMPING	242	224
9/5/2018 15:00	104.66	0	0	-999	560	37	298.81	0 BUMPING	242	224
9/5/2018 15:00	105.09	0	0	-999	560	91	300.27	0 BUMPING	242	224
9/5/2018 15:00	105.19	0	0	-999	560	71	300.54	0 BUMPING	242	224
9/5/2018 15:00	104.76	0	0	-999	560	2	299.33	0 BUMPING	242	224
9/5/2018 15:00	103.86	0	0	-999	560	4	296.74	0 BUMPING	242	224
9/5/2018 15:00	105.44	0	0	-999	560	17	301.26	0 BUMPING	242	224
9/5/2018 15:00	104.76	0	0	-999	560	101	299.33	0 BUMPING	242	224
9/5/2018 15:00	104.9	0	0	-999	560	91	299.74	0 BUMPING	242	224
9/5/2018 15:00	103.28	0	0	-999	560	38	295.1	0 BUMPING	242	224
9/5/2018 15:00	104.94	0	0	-999	560	2	299.41	0 BUMPING	242	224
9/5/2018 15:00	104.93	0	0	-999	560	8	299.82	0 BUMPING	242	224
9/5/2018 15:00	104.41	0	0	-999	560	37	298.32	0 BUMPING	242	224
9/5/2018 15:00	104.84	0	0	-999	560	92	299.55	0 BUMPING	242	224
9/5/2018 15:00	104.94	0	0	-999	560	74	299.99	0 BUMPING	242	224
9/5/2018 15:00	105.43	0	0	-999	560	2	301.22	0 BUMPING	242	224
9/5/2018 15:00	105.32	0	0	-999	560	3	300.93	0 BUMPING	242	224
9/5/2018 15:00	104.77	0	0	-999	560	15	299.99	0 BUMPING	242	224
9/5/2018 15:00	105.54	0	0	-999	560	100	301.55	0 BUMPING	242	224
9/5/2018 15:00	104.88	0	0	-999	560	91	299.67	0 BUMPING	242	224
9/5/2018 15:00	101.07	0	0	-999	560	37	298.86	0 BUMPING	242	224
9/5/2018 15:00	104.82	0	0	-999	560	2	299.5	0 BUMPING	242	224
9/5/2018 15:00	104.35	0	0	-999	560	7	297.92	0 BUMPING	242	224
9/5/2018 15:00	104.7	0	0	-999	560	37	299.15	0 BUMPING	242	224
9/5/2018 15:00	104.57	0	0	-999	560	93	299.21	0 BUMPING	242	224
9/5/2018 15:00	105.08	0	0	-999	560	70	300.23	0 BUMPING	242	224
9/5/2018 15:00	105.15	0	0	-999	560	1	300.44	0 BUMPING	242	224
9/5/2018 15:00	105.52	0	0	-999	560	3	300.56	0 BUMPING	242	224
9/5/2018 15:00	105.07	0	0	-999	560	17	300.21	0 BUMPING	242	224
9/5/2018 15:00	104.37	0	0	-999	560	100	298.21	0 BUMPING	242	224
9/5/2018 15:00	104.56	0	0	-999	560	89	298.74	0 BUMPING	242	224
9/5/2018 15:00	99.65	0	0	-999	560	37	296.91	0 BUMPING	242	224
9/5/2018 15:01	105.2	0	0	-999	560	2	300.59	0 BUMPING	242	224
9/5/2018 15:01	105.29	0	0	-999	560	8	300.83	0 BUMPING	242	224
9/5/2018 15:01	104.75	0	0	-999	560	37	299.82	0 BUMPING	242	224
9/5/2018 15:01	105.38	0	0	-999	560	92	301.09	0 BUMPING	242	224
9/5/2018 15:01	105.04	0	0	-999	560	71	300.13	0 BUMPING	242	224
9/5/2018 15:01	104.62	0	0	-999	560	1	298.85	0 BUMPING	242	224
9/5/2018 15:01	105.07	0	0	-999	560	4	300.2	0 BUMPING	242	224
9/5/2018 15:01	104.4	0	0	-999	560	17	298.28	0 BUMPING	242	224
9/5/2018 15:01	98.13	0	0	-999	560	100	280.38	0 BUMPING	242	224
9/5/2018 15:01	103.12	0	0	-999	560	89	294.64	0 BUMPING	242	224
9/5/2018 15:01	98.03	0	0	-999	560	19	280.11	0 BUMPING	242	224
9/5/2018 15:01	101.99	0	0	-999	560	2	291.4	0 BUMPING	242	224
9/5/2018 15:01	101.92	0	0	-999	560	8	291.27	0 BUMPING	242	224
9/5/2018 15:01	101.56	0	0	-999	560	43	290.19	0 BUMPING	242	224
9/5/2018 15:01	101.92	0	0	-999	560	91	291.2	0 BUMPING	242	224
9/5/2018 15:01	101.26	0	0	-999	560	70	289.28	0 BUMPING	242	224

9/5/2018 15:01	101.81	0	0	-999	560	1	291.68	0 BUMPING	242	224
9/5/2018 15:01	101.45	0	0	-999	560	3	289.86	0 BUMPING	242	224
9/5/2018 15:01	100.9	0	0	-999	560	17	288.29	0 BUMPING	242	224
9/5/2018 15:01	101.67	0	0	-999	560	97	290.5	0 BUMPING	242	224
9/5/2018 15:01	102.86	0	0	-999	560	85	293.9	0 BUMPING	242	224
9/5/2018 15:01	98.88	0	0	-999	560	17	282.52	0 BUMPING	242	224
9/5/2018 15:01	101.88	0	0	-999	560	2	291.09	0 BUMPING	242	224
9/5/2018 15:01	102.2	0	0	-999	560	8	292.02	0 BUMPING	242	224
9/5/2018 15:01	102.38	0	0	-999	560	43	292.51	0 BUMPING	242	224
9/5/2018 15:01	102.38	0	0	-999	560	90	292.53	0 BUMPING	242	224
9/5/2018 15:01	101.86	0	0	-999	560	77	292.43	0 BUMPING	242	224
9/5/2018 15:01	101.96	0	0	-999	560	1	291.33	0 BUMPING	242	224
9/5/2018 15:01	101.93	0	0	-999	560	4	291.23	0 BUMPING	242	224
9/5/2018 15:01	101.64	0	0	-999	560	17	290.89	0 BUMPING	242	224
9/5/2018 15:01	101.54	0	0	-999	560	95	290.14	0 BUMPING	242	224
9/5/2018 15:01	101.14	0	0	-999	560	84	288.97	0 BUMPING	242	224
9/5/2018 15:01	101.11	0	0	-999	560	17	276.05	0 BUMPING	242	224
9/5/2018 15:01	102.05	0	0	-999	560	2	291.59	0 BUMPING	242	224
9/5/2018 15:01	101.27	0	0	-999	560	9	289.35	0 BUMPING	242	224
9/5/2018 15:01	102.25	0	0	-999	560	44	292.16	0 BUMPING	242	224
9/5/2018 15:01	97.48	0	0	-999	560	89	280.13	0 BUMPING	242	224
9/5/2018 15:01	102.26	0	0	-999	560	71	292.19	0 BUMPING	242	224
9/5/2018 15:01	101.78	0	0	-999	560	1	290.82	0 BUMPING	242	224
9/5/2018 15:01	101.03	0	0	-999	560	3	289.69	0 BUMPING	242	224
9/5/2018 15:01	101.47	0	0	-999	560	20	289.93	0 BUMPING	242	224
9/5/2018 15:01	101.41	0	0	-999	560	95	289.74	0 BUMPING	242	224
9/5/2018 15:01	100.64	0	0	-999	560	83	288.13	0 BUMPING	242	224
9/5/2018 15:01	102.1	0	0	-999	560	1	291.71	0 BUMPING	242	224
9/5/2018 15:01	102.04	0	0	-999	560	2	291.54	0 BUMPING	242	224
9/5/2018 15:01	102.15	0	0	-999	560	9	291.86	0 BUMPING	242	224
9/5/2018 15:01	102.04	0	0	-999	560	43	292.21	0 BUMPING	242	224
9/5/2018 15:01	101.97	0	0	-999	560	89	291.35	0 BUMPING	242	224
9/5/2018 15:01	102.01	0	0	-999	560	70	291.45	0 BUMPING	242	224
9/5/2018 15:01	102.38	0	0	-999	560	1	292.53	0 BUMPING	242	224
9/5/2018 15:01	102.29	0	0	-999	560	3	291.69	0 BUMPING	242	224
9/5/2018 15:01	102.31	0	0	-999	560	17	292.69	0 BUMPING	242	224
9/5/2018 15:01	101.78	0	0	-999	560	95	290.8	0 BUMPING	242	224
9/5/2018 15:01	102.25	0	0	-999	560	82	292.09	0 BUMPING	242	224
9/5/2018 15:01	102.54	0	0	-999	560	1	292.99	0 BUMPING	242	224
9/5/2018 15:01	101.74	0	0	-999	560	2	290.68	0 BUMPING	242	224
9/5/2018 15:01	101.42	0	0	-999	560	9	289.83	0 BUMPING	242	224
9/5/2018 15:01	102.6	0	0	-999	560	52	293.15	0 BUMPING	242	224
9/5/2018 15:01	102.05	0	0	-999	560	97	291.59	0 BUMPING	242	224
9/5/2018 15:02	102.19	0	0	-999	560	71	291.97	0 BUMPING	242	224
9/5/2018 15:02	101.91	0	0	-999	560	1	291.52	0 BUMPING	242	224
9/5/2018 15:02	101.72	0	0	-999	560	4	290.63	0 BUMPING	242	224
9/5/2018 15:02	102.83	0	0	-999	560	20	293.8	0 BUMPING	242	224
9/5/2018 15:02	102.32	0	0	-999	560	95	291.98	0 BUMPING	242	224
9/5/2018 15:02	102.55	0	0	-999	560	81	293.01	0 BUMPING	242	224
9/5/2018 15:02	102.23	0	0	-999	560	1	292.1	0 BUMPING	242	224
9/5/2018 15:02	101.16	0	0	-999	560	2	289.26	0 BUMPING	242	224
9/5/2018 15:02	101.56	0	0	-999	560	10	290.17	0 BUMPING	242	224
9/5/2018 15:02	102.57	0	0	-999	560	53	293.08	0 BUMPING	242	224
9/5/2018 15:02	102.21	0	0	-999	560	95	292.04	0 BUMPING	242	224
9/5/2018 15:02	101.74	0	0	-999	560	64	290.68	0 BUMPING	242	224
9/5/2018 15:02	102.26	0	0	-999	560	1	292.19	0 BUMPING	242	224
9/5/2018 15:02	100.86	0	0	-999	560	4	288.17	0 BUMPING	242	224
9/5/2018 15:02	101.22	0	0	-999	560	20	289.01	0 BUMPING	242	224
9/5/2018 15:02	101.47	0	0	-999	560	93	289.91	0 BUMPING	242	224
9/5/2018 15:02	101.69	0	0	-999	560	79	290.55	0 BUMPING	242	224
9/5/2018 15:02	100.69	0	0	-999	560	1	287.95	0 BUMPING	242	224
9/5/2018 15:02	102.56	0	0	-999	560	2	293.03	0 BUMPING	242	224
9/5/2018 15:02	100.96	0	0	-999	560	10	288.46	0 BUMPING	242	224
9/5/2018 15:02	102.23	0	0	-999	560	51	292.28	0 BUMPING	242	224
9/5/2018 15:02	101.33	0	0	-999	560	95	290.41	0 BUMPING	242	224

9/5/2018 15:02	102.59	0	0	-999	560	64	293.13	0 BUMPING	242	224
9/5/2018 15:02	102.03	0	0	-999	560	1	291.52	0 BUMPING	242	224
9/5/2018 15:02	101.47	0	0	-999	560	4	289.95	0 BUMPING	242	224
9/5/2018 15:02	101.23	0	0	-999	560	23	289.25	0 BUMPING	242	224
9/5/2018 15:02	100.9	0	0	-999	560	91	288.31	0 BUMPING	242	224
9/5/2018 15:02	102.01	0	0	-999	560	79	291.66	0 BUMPING	242	224
9/5/2018 15:02	101.53	0	0	-999	560	1	290.1	0 BUMPING	242	224
9/5/2018 15:02	101.23	0	0	-999	560	2	289.23	0 BUMPING	242	224
9/5/2018 15:02	102.31	0	0	-999	560	10	292.31	0 BUMPING	242	224
9/5/2018 15:02	100.32	0	0	-999	560	52	287.11	0 BUMPING	242	224
9/5/2018 15:02	101.59	0	0	-999	560	94	290.27	0 BUMPING	242	224
9/5/2018 15:02	103.04	0	0	-999	560	64	294.41	0 BUMPING	242	224
9/5/2018 15:02	102.04	0	0	-999	560	2	290.6	0 BUMPING	242	224
9/5/2018 15:02	101.84	0	0	-999	560	5	290.99	0 BUMPING	242	224
9/5/2018 15:02	101.86	0	0	-999	560	23	291.03	0 BUMPING	242	224
9/5/2018 15:02	102.3	0	0	-999	560	93	292.29	0 BUMPING	242	224
9/5/2018 15:02	101.84	0	0	-999	560	78	290.97	0 BUMPING	242	224
9/5/2018 15:02	101.55	0	0	-999	560	1	290.15	0 BUMPING	242	224
9/5/2018 15:02	101.94	0	0	-999	560	2	291.27	0 BUMPING	242	224
9/5/2018 15:02	101.07	0	0	-999	560	10	288.77	0 BUMPING	242	224
9/5/2018 15:02	102.26	0	0	-999	560	52	292.17	0 BUMPING	242	224
9/5/2018 15:02	102.37	0	0	-999	560	94	291.56	0 BUMPING	242	224
9/5/2018 15:02	102.65	0	0	-999	560	69	293.63	0 BUMPING	242	224
9/5/2018 15:02	101.85	0	0	-999	560	2	291.01	0 BUMPING	242	224
9/5/2018 15:02	101.89	0	0	-999	560	5	291.11	0 BUMPING	242	224
9/5/2018 15:02	101.87	0	0	-999	560	23	291.08	0 BUMPING	242	224
9/5/2018 15:02	100.93	0	0	-999	560	92	288.39	0 BUMPING	242	224
9/5/2018 15:02	100.79	0	0	-999	560	81	287.98	0 BUMPING	242	224
9/5/2018 15:02	102.15	0	0	-999	560	1	292.07	0 BUMPING	242	224
9/5/2018 15:02	101.78	0	0	-999	560	2	290.82	0 BUMPING	242	224
9/5/2018 15:02	102.41	0	0	-999	560	10	292.6	0 BUMPING	242	224
9/5/2018 15:02	101.62	0	0	-999	560	51	290.34	0 BUMPING	242	224
9/5/2018 15:02	101.62	0	0	-999	560	93	290.34	0 BUMPING	242	224
9/5/2018 15:02	102.17	0	0	-999	560	63	291.92	0 BUMPING	242	224
9/5/2018 15:02	101.84	0	0	-999	560	1	290.99	0 BUMPING	242	224
9/5/2018 15:02	102.09	0	0	-999	560	4	291.83	0 BUMPING	242	224
9/5/2018 15:02	101.85	0	0	-999	560	23	291.01	0 BUMPING	242	224
9/5/2018 15:02	101.11	0	0	-999	560	91	288.89	0 BUMPING	242	224
9/5/2018 15:03	102.13	0	0	-999	560	81	290.84	0 BUMPING	242	224
9/5/2018 15:03	102.58	0	0	-999	560	1	293.1	0 BUMPING	242	224
9/5/2018 15:03	102.05	0	0	-999	560	2	291.57	0 BUMPING	242	224
9/5/2018 15:03	102	0	0	-999	560	10	292.07	0 BUMPING	242	224
9/5/2018 15:03	102.31	0	0	-999	560	63	292.31	0 BUMPING	242	224
9/5/2018 15:03	101.24	0	0	-999	560	92	289.26	0 BUMPING	242	224
9/5/2018 15:03	102.09	0	0	-999	560	63	291.69	0 BUMPING	242	224
9/5/2018 15:03	101.25	0	0	-999	560	1	289.3	0 BUMPING	242	224
9/5/2018 15:03	102.8	0	0	-999	560	5	293.73	0 BUMPING	242	224
9/5/2018 15:03	102.82	0	0	-999	560	23	293.78	0 BUMPING	242	224
9/5/2018 15:03	101.36	0	0	-999	560	92	290.05	0 BUMPING	242	224
9/5/2018 15:03	101.77	0	0	-999	560	78	290.79	0 BUMPING	242	224
9/5/2018 15:03	102.09	0	0	-999	560	1	291.69	0 BUMPING	242	224
9/5/2018 15:03	102.09	0	0	-999	560	2	291.69	0 BUMPING	242	224
9/5/2018 15:03	102.92	0	0	-999	560	11	294.07	0 BUMPING	242	224
9/5/2018 15:03	101.91	0	0	-999	560	51	291.51	0 BUMPING	242	224
9/5/2018 15:03	102.26	0	0	-999	560	91	292.19	0 BUMPING	242	224
9/5/2018 15:03	102.85	0	0	-999	560	63	293.83	0 BUMPING	242	224
9/5/2018 15:03	102.05	0	0	-999	560	2	291.59	0 BUMPING	242	224
9/5/2018 15:03	102.02	0	0	-999	560	5	291.51	0 BUMPING	242	224
9/5/2018 15:03	102.79	0	0	-999	560	23	293.25	0 BUMPING	242	224
9/5/2018 15:03	102.6	0	0	-999	560	93	293.15	0 BUMPING	242	224
9/5/2018 15:03	101.75	0	0	-999	560	79	290.72	0 BUMPING	242	224
9/5/2018 15:03	101.69	0	0	-999	560	1	290.55	0 BUMPING	242	224
9/5/2018 15:03	102.27	0	0	-999	560	2	291.52	0 BUMPING	242	224
9/5/2018 15:03	100.83	0	0	-999	560	11	288.1	0 BUMPING	242	224
9/5/2018 15:03	102.78	0	0	-999	560	63	293.66	0 BUMPING	242	224

9/5/2018 15:03	101.96	0	0	-999	560	92	291.4	0 BUMPING	242	224
9/5/2018 15:03	102.65	0	0	-999	560	55	293.3	0 BUMPING	242	224
9/5/2018 15:03	102.5	0	0	-999	560	1	292.87	0 BUMPING	242	224
9/5/2018 15:03	102.16	0	0	-999	560	5	291.9	0 BUMPING	242	224
9/5/2018 15:03	99.5	0	0	-999	560	27	284.28	0 BUMPING	242	224
9/5/2018 15:03	100.69	0	0	-999	560	91	287.71	0 BUMPING	242	224
9/5/2018 15:03	100.49	0	0	-999	560	78	287.12	0 BUMPING	242	224
9/5/2018 15:03	100.64	0	0	-999	560	1	287.96	0 BUMPING	242	224
9/5/2018 15:03	101.51	0	0	-999	560	2	290.03	0 BUMPING	242	224
9/5/2018 15:03	101.98	0	0	-999	560	11	291.37	0 BUMPING	242	224
9/5/2018 15:03	102.16	0	0	-999	560	62	291.76	0 BUMPING	242	224
9/5/2018 15:03	102.59	0	0	-999	560	91	293.13	0 BUMPING	242	224
9/5/2018 15:03	102.29	0	0	-999	560	54	292.26	0 BUMPING	242	224
9/5/2018 15:03	100.52	0	0	-999	560	1	287.04	0 BUMPING	242	224
9/5/2018 15:03	101.92	0	0	-999	560	6	291.21	0 BUMPING	242	224
9/5/2018 15:03	101.9	0	0	-999	560	27	291.16	0 BUMPING	242	224
9/5/2018 15:03	101.01	0	0	-999	560	92	288.61	0 BUMPING	242	224
9/5/2018 15:03	102.25	0	0	-999	560	77	292.14	0 BUMPING	242	224
9/5/2018 15:03	102.16	0	0	-999	560	1	291.9	0 BUMPING	242	224
9/5/2018 15:03	101.47	0	0	-999	560	2	289.91	0 BUMPING	242	224
9/5/2018 15:03	101.25	0	0	-999	560	11	289.42	0 BUMPING	242	224
9/5/2018 15:03	101.09	0	0	-999	560	79	288.84	0 BUMPING	242	224
9/5/2018 15:03	102.01	0	0	-999	560	90	291.45	0 BUMPING	242	224
9/5/2018 15:03	102.35	0	0	-999	560	53	292.45	0 BUMPING	242	224
9/5/2018 15:03	102.2	0	0	-999	560	1	292	0 BUMPING	242	224
9/5/2018 15:03	102.55	0	0	-999	560	6	293.01	0 BUMPING	242	224
9/5/2018 15:03	101.96	0	0	-999	560	27	291.33	0 BUMPING	242	224
9/5/2018 15:03	101.88	0	0	-999	560	93	291.04	0 BUMPING	242	224
9/5/2018 15:03	102.17	0	0	-999	560	88	291.59	0 BUMPING	242	224
9/5/2018 15:03	102.56	0	0	-999	560	1	293.03	0 BUMPING	242	224
9/5/2018 15:03	102.19	0	0	-999	560	2	291.98	0 BUMPING	242	224
9/5/2018 15:03	102.78	0	0	-999	560	12	293.03	0 BUMPING	242	224
9/5/2018 15:04	102.37	0	0	-999	560	80	292.5	0 BUMPING	242	224
9/5/2018 15:04	101.85	0	0	-999	560	91	291.16	0 BUMPING	242	224
9/5/2018 15:04	102.04	0	0	-999	560	43	291.54	0 BUMPING	242	224
9/5/2018 15:04	101.88	0	0	-999	560	2	291.09	0 BUMPING	242	224
9/5/2018 15:04	102.32	0	0	-999	560	6	292.36	0 BUMPING	242	224
9/5/2018 15:04	102.63	0	0	-999	560	28	293.51	0 BUMPING	242	224
9/5/2018 15:04	102.25	0	0	-999	560	95	292.14	0 BUMPING	242	224
9/5/2018 15:04	102.67	0	0	-999	560	85	293.35	0 BUMPING	242	224
9/5/2018 15:04	101.84	0	0	-999	560	1	291.06	0 BUMPING	242	224
9/5/2018 15:04	101.08	0	0	-999	560	3	288.8	0 BUMPING	242	224
9/5/2018 15:04	102.36	0	0	-999	560	13	292.48	0 BUMPING	242	224
9/5/2018 15:04	102.37	0	0	-999	560	80	292.5	0 BUMPING	242	224
9/5/2018 15:04	101.38	0	0	-999	560	91	289.76	0 BUMPING	242	224
9/5/2018 15:04	101.11	0	0	-999	560	43	288.89	0 BUMPING	242	224
9/5/2018 15:04	103.05	0	0	-999	560	2	294.45	0 BUMPING	242	224
9/5/2018 15:04	102.05	0	0	-999	560	6	291.11	0 BUMPING	242	224
9/5/2018 15:04	100.91	0	0	-999	560	33	288.32	0 BUMPING	242	224
9/5/2018 15:04	101.37	0	0	-999	560	95	289.64	0 BUMPING	242	224
9/5/2018 15:04	102.69	0	0	-999	560	85	293.4	0 BUMPING	242	224
9/5/2018 15:04	102.45	0	0	-999	560	2	292.74	0 BUMPING	242	224
9/5/2018 15:04	101.78	0	0	-999	560	2	290.82	0 BUMPING	242	224
9/5/2018 15:04	102.14	0	0	-999	560	12	291.88	0 BUMPING	242	224
9/5/2018 15:04	101.85	0	0	-999	560	80	291.01	0 BUMPING	242	224
9/5/2018 15:04	101.42	0	0	-999	560	90	289.79	0 BUMPING	242	224
9/5/2018 15:04	101.75	0	0	-999	560	52	290.6	0 BUMPING	242	224
9/5/2018 15:04	102.07	0	0	-999	560	1	291.52	0 BUMPING	242	224
9/5/2018 15:04	101.65	0	0	-999	560	6	290.44	0 BUMPING	242	224
9/5/2018 15:04	101.69	0	0	-999	560	29	290.55	0 BUMPING	242	224
9/5/2018 15:04	101.24	0	0	-999	560	104	288.75	0 BUMPING	242	224
9/5/2018 15:04	102.46	0	0	-999	560	86	292.75	0 BUMPING	242	224
9/5/2018 15:04	102.31	0	0	-999	560	1	292.31	0 BUMPING	242	224
9/5/2018 15:04	102.63	0	0	-999	560	2	293.76	0 BUMPING	242	224
9/5/2018 15:04	102.13	0	0	-999	560	14	291.81	0 BUMPING	242	224

9/5/2018 15:04	102.58	0	0	-999	560	84	293.1	0 BUMPING	242	224
9/5/2018 15:04	101.85	0	0	-999	560	92	291.01	0 BUMPING	242	224
9/5/2018 15:04	101.9	0	0	-999	560	44	291.15	0 BUMPING	242	224
9/5/2018 15:04	102.5	0	0	-999	560	2	292.86	0 BUMPING	242	224
9/5/2018 15:04	102.69	0	0	-999	560	6	293.42	0 BUMPING	242	224
9/5/2018 15:04	101.77	0	0	-999	560	30	290.67	0 BUMPING	242	224
9/5/2018 15:04	101.64	0	0	-999	560	104	290.41	0 BUMPING	242	224
9/5/2018 15:04	100.81	0	0	-999	560	85	288.03	0 BUMPING	242	224
9/5/2018 15:04	102.98	0	0	-999	560	1	294.28	0 BUMPING	242	224
9/5/2018 15:04	102.73	0	0	-999	560	3	293.52	0 BUMPING	242	224
9/5/2018 15:04	102.26	0	0	-999	560	14	292.17	0 BUMPING	242	224
9/5/2018 15:04	102.82	0	0	-999	560	85	293.78	0 BUMPING	242	224
9/5/2018 15:04	101.98	0	0	-999	560	92	291.97	0 BUMPING	242	224
9/5/2018 15:04	101.45	0	0	-999	560	44	289.86	0 BUMPING	242	224
9/5/2018 15:04	101.96	0	0	-999	560	2	291.33	0 BUMPING	242	224
9/5/2018 15:04	102.32	0	0	-999	560	6	292.31	0 BUMPING	242	224
9/5/2018 15:04	101.75	0	0	-999	560	35	290.72	0 BUMPING	242	224
9/5/2018 15:04	101.05	0	0	-999	560	104	288.72	0 BUMPING	242	224
9/5/2018 15:04	103.08	0	0	-999	560	87	295.03	0 BUMPING	242	224
9/5/2018 15:04	102.36	0	0	-999	560	1	292.46	0 BUMPING	242	224
9/5/2018 15:04	102.37	0	0	-999	560	3	292.5	0 BUMPING	242	224
9/5/2018 15:04	101.93	0	0	-999	560	14	291.23	0 BUMPING	242	224
9/5/2018 15:04	101.99	0	0	-999	560	102	291.4	0 BUMPING	242	224
9/5/2018 15:04	100.78	0	0	-999	560	92	287.95	0 BUMPING	242	224
9/5/2018 15:04	101.72	0	0	-999	560	44	290.65	0 BUMPING	242	224
9/5/2018 15:04	101.24	0	0	-999	560	1	289.73	0 BUMPING	242	224
9/5/2018 15:05	101.82	0	0	-999	560	7	290.92	0 BUMPING	242	224
9/5/2018 15:05	103.11	0	0	-999	560	35	294.6	0 BUMPING	242	224
9/5/2018 15:05	102.71	0	0	-999	560	106	293.47	0 BUMPING	242	224
9/5/2018 15:05	102.27	0	0	-999	560	83	292.21	0 BUMPING	242	224
9/5/2018 15:05	101.74	0	0	-999	560	1	291.47	0 BUMPING	242	224
9/5/2018 15:05	102.79	0	0	-999	560	3	293.7	0 BUMPING	242	224
9/5/2018 15:05	102.91	0	0	-999	560	14	293.42	0 BUMPING	242	224
9/5/2018 15:05	102.44	0	0	-999	560	104	292.7	0 BUMPING	242	224
9/5/2018 15:05	102.07	0	0	-999	560	95	291.62	0 BUMPING	242	224
9/5/2018 15:05	102.01	0	0	-999	560	44	293.63	0 BUMPING	242	224
9/5/2018 15:05	102.51	0	0	-999	560	2	292.91	0 BUMPING	242	224
9/5/2018 15:05	102.77	0	0	-999	560	6	293.64	0 BUMPING	242	224
9/5/2018 15:05	102.5	0	0	-999	560	37	294.04	0 BUMPING	242	224
9/5/2018 15:05	102.5	0	0	-999	560	106	292.86	0 BUMPING	242	224
9/5/2018 15:05	102.02	0	0	-999	560	83	291.49	0 BUMPING	242	224
9/5/2018 15:05	102.59	0	0	-999	560	1	293.13	0 BUMPING	242	224
9/5/2018 15:05	102.31	0	0	-999	560	3	293.03	0 BUMPING	242	224
9/5/2018 15:05	102.85	0	0	-999	560	17	293.87	0 BUMPING	242	224
9/5/2018 15:05	102.7	0	0	-999	560	107	293.44	0 BUMPING	242	224
9/5/2018 15:05	101.6	0	0	-999	560	98	290.44	0 BUMPING	242	224
9/5/2018 15:05	101.78	0	0	-999	560	32	290.8	0 BUMPING	242	224
9/5/2018 15:05	102.87	0	0	-999	560	1	293.92	0 BUMPING	242	224
9/5/2018 15:05	102.53	0	0	-999	560	7	292.96	0 BUMPING	242	224
9/5/2018 15:05	102.66	0	0	-999	560	47	293.34	0 BUMPING	242	224
9/5/2018 15:05	102.92	0	0	-999	560	108	294.07	0 BUMPING	242	224
9/5/2018 15:05	102.83	0	0	-999	560	88	293.8	0 BUMPING	242	224
9/5/2018 15:05	102.68	0	0	-999	560	1	293.46	0 BUMPING	242	224
9/5/2018 15:05	102.44	0	0	-999	560	2	292.69	0 BUMPING	242	224
9/5/2018 15:05	102.48	0	0	-999	560	19	292.82	0 BUMPING	242	224
9/5/2018 15:05	102.68	0	0	-999	560	111	293.37	0 BUMPING	242	224
9/5/2018 15:05	102.21	0	0	-999	560	102	291.68	0 BUMPING	242	224
9/5/2018 15:05	102.96	0	0	-999	560	33	294.17	0 BUMPING	242	224
9/5/2018 15:05	102.27	0	0	-999	560	2	292.21	0 BUMPING	242	224
9/5/2018 15:05	103.06	0	0	-999	560	8	294.11	0 BUMPING	242	224
9/5/2018 15:05	102.77	0	0	-999	560	52	293.63	0 BUMPING	242	224
9/5/2018 15:05	102.19	0	0	-999	560	116	291.98	0 BUMPING	242	224
9/5/2018 15:05	103.17	0	0	-999	560	89	295.49	0 BUMPING	242	224
9/5/2018 15:05	103.19	0	0	-999	560	2	294.82	0 BUMPING	242	224
9/5/2018 15:05	102.78	0	0	-999	560	4	293.66	0 BUMPING	242	224

9/5/2018 15:05	102.52	0	0	-999	560	25	292.63	0 BUMPING	242	224
9/5/2018 15:05	102.5	0	0	-999	560	119	292.91	0 BUMPING	242	224
9/5/2018 15:05	102.44	0	0	-999	560	108	292.69	0 BUMPING	242	224
9/5/2018 15:05	102.7	0	0	-999	560	33	293.44	0 BUMPING	242	224
9/5/2018 15:05	103.53	0	0	-999	560	3	295.66	0 BUMPING	242	224
9/5/2018 15:05	103.01	0	0	-999	560	16	294.33	0 BUMPING	242	224
9/5/2018 15:05	102.62	0	0	-999	560	69	293.22	0 BUMPING	242	224
9/5/2018 15:05	102.18	0	0	-999	560	126	292.1	0 BUMPING	242	224
9/5/2018 15:05	102.83	0	0	-999	560	84	293.82	0 BUMPING	242	224
9/5/2018 15:05	102.8	0	0	-999	560	4	293.73	0 BUMPING	242	224
9/5/2018 15:05	102.9	0	0	-999	560	14	293.46	0 BUMPING	242	224
9/5/2018 15:05	103.13	0	0	-999	560	54	294.67	0 BUMPING	242	224
9/5/2018 15:05	102.32	0	0	-999	560	152	292.34	0 BUMPING	242	224
9/5/2018 15:05	102.51	0	0	-999	560	122	292.91	0 BUMPING	242	224
9/5/2018 15:05	102.04	1.56	0	-999	560	9	291.01	0 BUMPING	242	224
9/5/2018 15:05	102.37	0	0	-999	560	33	292.34	0 BUMPING	242	224
9/5/2018 15:05	102.71	0	0	-999	560	101	293.46	0 BUMPING	242	224
9/5/2018 15:05	102.23	1.73	0	-999	560	95	292.09	0 BUMPING	242	224
9/5/2018 15:05	102.74	0	0	-999	560	55	293.56	0 BUMPING	242	224
9/5/2018 15:05	100.1	0	0	-999	560	165	286.01	0 BUMPING	242	224
9/5/2018 15:06	99.44	0	0	-999	560	73	284.11	0 BUMPING	242	224
9/5/2018 15:06	100.29	1.1	0	-999	560	132	285.84	0 BUMPING	242	224
9/5/2018 15:06	98.71	0	0	-999	560	138	282.04	0 BUMPING	242	224
9/5/2018 15:06	106.11	3.9	40.2	359.7	560	397	290.72	0 RUNNING	242	224
9/5/2018 15:06	111.9	3.92	43.2	361.9	560	435	294.26	0 RUNNING	242	224
9/5/2018 15:06	115.89	3.92	44.8	363.1	560	449	292.96	0 RUNNING	242	224
9/5/2018 15:06	118.65	3.91	45.9	363.8	560	461	288.77	0 RUNNING	242	224
9/5/2018 15:06	121.25	3.92	46.9	364.5	560	471	284.51	0 RUNNING	242	224
9/5/2018 15:06	123	3.91	47.7	365	560	482	278.6	0 RUNNING	242	224
9/5/2018 15:06	127.18	3.91	49.1	366.1	560	498	278.43	0 RUNNING	242	224
9/5/2018 15:06	132.15	3.9	50.9	367.3	560	520	279.94	0 RUNNING	242	224
9/5/2018 15:06	134.27	3.91	52.5	368.7	560	535	279.41	0 RUNNING	242	224
9/5/2018 15:06	134.44	3.9	52.4	368.4	560	535	280.62	0 RUNNING	242	224
9/5/2018 15:06	134.63	3.89	52.4	368.3	560	534	282.61	0 RUNNING	242	224
9/5/2018 15:06	134.86	3.89	52.4	368.4	560	532	282.81	0 RUNNING	242	224
9/5/2018 15:06	135.26	3.9	52.4	368.4	560	528	278.07	0 RUNNING	242	224
9/5/2018 15:06	134.98	3.9	52.5	368.5	560	526	279.73	0 RUNNING	242	224
9/5/2018 15:06	135.28	3.89	52.4	368.3	560	526	280.14	0 RUNNING	242	224
9/5/2018 15:06	134.52	3.9	52.6	368.6	560	523	278.62	0 RUNNING	242	224
9/5/2018 15:06	135.13	3.89	52.4	368.4	560	523	279.82	0 RUNNING	242	224
9/5/2018 15:06	134.57	3.89	52.4	368.3	560	524	281.22	0 RUNNING	242	224
9/5/2018 15:06	133.79	3.9	52.5	368.5	560	524	278.02	0 RUNNING	242	224
9/5/2018 15:06	135.23	3.9	52.6	368.6	560	526	278.36	0 RUNNING	242	224
9/5/2018 15:06	135.04	3.91	52.8	368.9	560	527	281.55	0 RUNNING	242	224
9/5/2018 15:06	135.21	3.91	52.7	368.7	560	526	281.82	0 RUNNING	242	224
9/5/2018 15:06	134.62	3.9	52.5	368.6	560	524	278.24	0 RUNNING	242	224
9/5/2018 15:06	135.46	3.9	52.5	368.5	560	523	278.95	0 RUNNING	242	224
9/5/2018 15:06	135.02	3.9	52.6	368.6	560	521	281.7	0 RUNNING	242	224
9/5/2018 15:06	135.11	3.9	52.5	368.5	560	518	280.13	0 RUNNING	242	224
9/5/2018 15:06	134.65	3.9	52.5	368.5	560	516	277.13	0 RUNNING	242	224
9/5/2018 15:06	134.95	3.9	52.5	368.5	560	516	279.87	0 RUNNING	242	224
9/5/2018 15:06	134.4	3.9	52.5	368.5	560	514	277.22	0 RUNNING	242	224
9/5/2018 15:06	135.06	3.9	52.6	368.6	560	515	281.26	0 RUNNING	242	224
9/5/2018 15:06	135.09	3.9	52.5	368.5	560	515	282.13	0 RUNNING	242	224
9/5/2018 15:06	134.63	3.9	52.5	368.5	560	517	278.4	0 RUNNING	242	224
9/5/2018 15:06	134.44	3.9	52.6	368.7	560	520	278.5	0 RUNNING	242	224
9/5/2018 15:06	134.77	3.9	52.6	368.6	560	520	280.78	0 RUNNING	242	224
9/5/2018 15:06	134.02	3.9	52.5	368.5	560	521	276.46	0 RUNNING	242	224
9/5/2018 15:06	134.94	3.9	52.6	368.6	560	521	278.21	0 RUNNING	242	224
9/5/2018 15:06	134.53	3.91	52.7	368.8	560	520	279.53	0 RUNNING	242	224
9/5/2018 15:06	134.58	3.9	52.5	368.5	560	519	277.71	0 RUNNING	242	224
9/5/2018 15:06	134.82	3.91	52.7	368.8	560	517	280.5	0 RUNNING	242	224
9/5/2018 15:06	134.15	3.91	52.7	368.8	560	518	277.76	0 RUNNING	242	224
9/5/2018 15:06	135.04	3.91	52.6	368.7	560	517	279.78	0 RUNNING	242	224
9/5/2018 15:06	135.04	3.91	52.6	368.7	560	519	277.32	0 RUNNING	242	224

9/5/2018 15:06	134.39	3.9	52.6	368.6	560	519	277.32	0 RUNNING	242	224
9/5/2018 15:06	134.45	3.91	52.7	368.7	560	522	279.54	0 RUNNING	242	224
9/5/2018 15:06	134.36	3.9	52.5	368.5	560	523	278.28	0 RUNNING	242	224
9/5/2018 15:06	134.29	3.9	52.5	368.5	560	525	279.17	0 RUNNING	242	224
9/5/2018 15:06	134.4	3.9	52.4	368.4	560	525	277.32	0 RUNNING	242	224
9/5/2018 15:06	134.81	3.9	52.6	368.6	560	527	280.07	0 RUNNING	242	224
9/5/2018 15:06	135.05	3.9	52.5	368.4	560	526	279.15	0 RUNNING	242	224
9/5/2018 15:06	134.08	3.91	52.6	368.6	560	526	278.55	0 RUNNING	242	224
9/5/2018 15:06	134.51	3.91	52.7	368.7	560	525	280.14	0 RUNNING	242	224
9/5/2018 15:06	134.88	3.91	52.6	368.6	560	523	278.23	0 RUNNING	242	224
9/5/2018 15:06	133.98	3.91	52.6	368.7	560	522	277.06	0 RUNNING	242	224
9/5/2018 15:06	134.63	3.9	52.5	368.6	560	523	277.54	0 RUNNING	242	224
9/5/2018 15:06	135.23	3.91	52.7	368.8	560	525	280.23	0 RUNNING	242	224
9/5/2018 15:06	134.99	3.91	52.6	368.6	560	525	279.48	0 RUNNING	242	224
9/5/2018 15:07	134.72	3.91	52.7	368.7	560	527	280.93	0 RUNNING	242	224
9/5/2018 15:07	134.79	3.9	52.6	368.6	560	530	277.7	0 RUNNING	242	224
9/5/2018 15:07	135.02	3.89	52.5	368.5	560	530	281	0 RUNNING	242	224
9/5/2018 15:07	134.6	3.9	52.6	368.6	560	530	281.51	0 RUNNING	242	224
9/5/2018 15:07	134.33	3.91	52.6	368.7	560	528	280.33	0 RUNNING	242	224
9/5/2018 15:07	134.72	3.9	52.5	368.6	560	529	278.19	0 RUNNING	242	224
9/5/2018 15:07	135.06	3.9	52.6	368.6	560	527	279.48	0 RUNNING	242	224
9/5/2018 15:07	134.45	3.91	52.6	368.7	560	525	279.94	0 RUNNING	242	224
9/5/2018 15:07	135.2	3.91	52.6	368.7	560	525	281.12	0 RUNNING	242	224
9/5/2018 15:07	133.89	3.9	52.3	368.4	560	522	278.16	0 RUNNING	242	224
9/5/2018 15:07	134.35	3.9	52.4	368.5	560	523	277.53	0 RUNNING	242	224
9/5/2018 15:07	134.33	3.9	52.6	368.6	560	527	280.13	0 RUNNING	242	224
9/5/2018 15:07	134.58	3.91	52.6	368.7	560	529	278.4	0 RUNNING	242	224
9/5/2018 15:07	134.84	3.91	52.6	368.7	560	531	278.16	0 RUNNING	242	224
9/5/2018 15:07	134.62	3.9	52.6	368.6	560	532	280.52	0 RUNNING	242	224
9/5/2018 15:07	134.55	3.9	52.5	368.6	560	533	278.12	0 RUNNING	242	224
9/5/2018 15:07	134.76	3.9	52.5	368.5	560	531	278.38	0 RUNNING	242	224
9/5/2018 15:07	134.51	3.9	52.4	368.5	560	530	277.58	0 RUNNING	242	224
9/5/2018 15:07	134.42	3.91	52.7	368.7	560	529	279.84	0 RUNNING	242	224
9/5/2018 15:07	134.23	3.9	52.5	368.5	560	528	277.9	0 RUNNING	242	224
9/5/2018 15:07	134.36	3.9	52.5	368.6	560	525	279.94	0 RUNNING	242	224
9/5/2018 15:07	134.18	3.9	52.5	368.6	560	526	278.64	0 RUNNING	242	224
9/5/2018 15:07	135.31	3.9	52.5	368.4	560	526	279.87	0 RUNNING	242	224
9/5/2018 15:07	134.49	3.9	52.4	368.5	560	527	278	0 RUNNING	242	224
9/5/2018 15:07	135.04	3.91	52.6	368.7	560	530	280.93	0 RUNNING	242	224
9/5/2018 15:07	134.66	3.9	52.5	368.6	560	530	280.5	0 RUNNING	242	224
9/5/2018 15:07	134.81	3.91	52.6	368.7	560	532	280.88	0 RUNNING	242	224
9/5/2018 15:07	135.29	3.9	52.6	368.6	560	531	279.18	0 RUNNING	242	224
9/5/2018 15:07	134.61	3.91	52.6	368.7	560	532	278.57	0 RUNNING	242	224
9/5/2018 15:07	134.31	3.9	52.5	368.5	560	531	280.09	0 RUNNING	242	224
9/5/2018 15:07	134.26	3.91	52.7	368.8	560	529	279.8	0 RUNNING	242	224
9/5/2018 15:07	135.04	3.91	52.5	368.6	560	527	277.8	0 RUNNING	242	224
9/5/2018 15:07	135.2	3.92	52.8	369	560	527	281.68	0 RUNNING	242	224
9/5/2018 15:07	134.3	3.91	52.6	368.8	560	526	278.26	0 RUNNING	242	224
9/5/2018 15:07	135.01	3.92	52.7	368.9	560	527	279.32	0 RUNNING	242	224
9/5/2018 15:07	135.36	3.91	52.6	368.6	560	528	281.17	0 RUNNING	242	224
9/5/2018 15:07	134.73	3.92	52.8	369	560	531	278.55	0 RUNNING	242	224
9/5/2018 15:07	134.8	3.92	52.8	369.1	560	531	280.06	0 RUNNING	242	224
9/5/2018 15:07	135.51	3.92	52.8	368.9	560	532	282.35	0 RUNNING	242	224
9/5/2018 15:07	134.68	3.92	52.7	368.9	560	533	281.96	0 RUNNING	242	224
9/5/2018 15:07	134.26	3.92	52.6	368.8	560	532	278.77	0 RUNNING	242	224
9/5/2018 15:07	135.11	3.92	52.7	368.9	560	532	279.89	0 RUNNING	242	224
9/5/2018 15:07	134.45	3.92	52.8	369.1	560	530	278.77	0 RUNNING	242	224
9/5/2018 15:07	135.22	3.92	52.8	369	560	528	278.71	0 RUNNING	242	224
9/5/2018 15:07	134.39	3.93	52.9	369.2	560	528	278.83	0 RUNNING	242	224
9/5/2018 15:07	134.96	3.92	52.8	369	560	527	281.96	0 RUNNING	242	224
9/5/2018 15:07	134.92	3.93	52.9	369.1	560	527	281.27	0 RUNNING	242	224
9/5/2018 15:07	134.61	3.92	52.7	368.9	560	527	277.82	0 RUNNING	242	224
9/5/2018 15:07	135.63	3.92	52.7	368.9	560	530	279.9	0 RUNNING	242	224
9/5/2018 15:07	135.12	3.92	52.7	368.9	560	530	281.8	0 RUNNING	242	224
9/5/2018 15:07	135.15	3.93	52.8	369.1	560	533	281.31	0 RUNNING	242	224

9/5/2018 15:07	135.43	3.92	52.9	369.1	560	534	282.59	0 RUNNING	242	224
9/5/2018 15:07	134.87	3.92	52.7	368.9	560	532	281	0 RUNNING	242	224
9/5/2018 15:07	134.82	3.92	52.7	368.9	560	531	280.83	0 RUNNING	242	224
9/5/2018 15:07	134.96	3.92	52.8	369	560	531	278.48	0 RUNNING	242	224
9/5/2018 15:07	134.94	3.92	52.7	368.9	560	528	278.47	0 RUNNING	242	224
9/5/2018 15:07	134.42	3.92	52.7	368.8	560	527	278.19	0 RUNNING	242	224
9/5/2018 15:07	134.57	3.92	52.8	369.1	560	528	278.57	0 RUNNING	242	224
9/5/2018 15:07	134.87	3.93	52.9	369.2	560	527	281.56	0 RUNNING	242	224
9/5/2018 15:08	134.29	3.92	52.8	369	560	528	279.27	0 RUNNING	242	224
9/5/2018 15:08	134.69	3.93	52.9	369.1	560	530	280.02	0 RUNNING	242	224
9/5/2018 15:08	134.78	3.92	52.7	368.8	560	530	278.91	0 RUNNING	242	224
9/5/2018 15:08	134.29	3.91	52.7	368.8	560	531	279.08	0 RUNNING	242	224
9/5/2018 15:08	134.23	3.92	52.7	368.9	560	532	280.76	0 RUNNING	242	224
9/5/2018 15:08	134.51	3.92	52.8	369	560	532	277.58	0 RUNNING	242	224
9/5/2018 15:08	135.28	3.92	52.8	369	560	533	279.97	0 RUNNING	242	224
9/5/2018 15:08	134.25	3.92	52.8	369	560	531	278.84	0 RUNNING	242	224
9/5/2018 15:08	134.52	3.92	52.8	369	560	529	279.18	0 RUNNING	242	224
9/5/2018 15:08	134.61	3.92	52.8	369.1	560	527	281.26	0 RUNNING	242	224
9/5/2018 15:08	134.34	3.92	52.7	369	560	526	277.11	0 RUNNING	242	224
9/5/2018 15:08	134.98	3.92	52.8	369	560	526	280.79	0 RUNNING	242	224
9/5/2018 15:08	134.49	3.92	52.8	369	560	528	278.76	0 RUNNING	242	224
9/5/2018 15:08	134.35	3.93	52.8	369.1	560	529	279.89	0 RUNNING	242	224
9/5/2018 15:08	134.36	3.92	52.7	369	560	530	278.74	0 RUNNING	242	224
9/5/2018 15:08	134.68	3.93	52.9	369.2	560	532	279.01	0 RUNNING	242	224
9/5/2018 15:08	134.94	3.92	52.8	369	560	532	279.56	0 RUNNING	242	224
9/5/2018 15:08	134.3	3.92	52.8	368.9	560	533	280.55	0 RUNNING	242	224
9/5/2018 15:08	134.57	3.92	52.8	369	560	531	280.43	0 RUNNING	242	224
9/5/2018 15:08	135.14	3.92	52.8	369	560	529	282.45	0 RUNNING	242	224
9/5/2018 15:08	135.28	3.92	52.8	369.1	560	527	280.49	0 RUNNING	242	224
9/5/2018 15:08	134.19	3.91	52.7	368.8	560	525	277.03	0 RUNNING	242	224
9/5/2018 15:08	134.64	3.92	52.8	369	560	524	277.8	0 RUNNING	242	224
9/5/2018 15:08	134.3	3.92	52.8	369	560	521	281.15	0 RUNNING	242	224
9/5/2018 15:08	133.91	3.92	52.7	368.9	560	520	276.77	0 RUNNING	242	224
9/5/2018 15:08	135.02	3.92	52.9	369.1	560	521	279.42	0 RUNNING	242	224
9/5/2018 15:08	135.19	3.93	52.9	369.2	560	522	281.46	0 RUNNING	242	224
9/5/2018 15:08	134.38	3.92	52.8	369	560	521	276.81	0 RUNNING	242	224
9/5/2018 15:08	135.34	3.92	52.8	368.9	560	518	279.1	0 RUNNING	242	224
9/5/2018 15:08	135.16	3.92	52.8	368.9	560	515	280.88	0 RUNNING	242	224
9/5/2018 15:08	134.63	3.92	52.8	369	560	515	277.8	0 RUNNING	242	224
9/5/2018 15:08	134.53	3.92	52.8	369	560	514	279.58	0 RUNNING	242	224
9/5/2018 15:08	134.7	3.92	52.9	369	560	514	278.71	0 RUNNING	242	224
9/5/2018 15:08	134.77	3.92	52.8	369	560	513	277.44	0 RUNNING	242	224
9/5/2018 15:08	135.37	3.92	52.8	368.9	560	512	278.83	0 RUNNING	242	224
9/5/2018 15:08	135.13	3.93	53	369.2	560	512	281.31	0 RUNNING	242	224
9/5/2018 15:08	134.67	3.92	52.8	369	560	512	280.35	0 RUNNING	242	224
9/5/2018 15:08	134.57	3.92	52.8	369	560	512	277.95	0 RUNNING	242	224
9/5/2018 15:08	135.2	3.92	52.8	369	560	509	278.18	0 RUNNING	242	224
9/5/2018 15:08	134.14	3.92	52.8	369	560	504	276.7	0 RUNNING	242	224
9/5/2018 15:08	134.8	3.92	52.8	369	560	495	279.03	0 RUNNING	242	224
9/5/2018 15:08	134.94	3.92	52.8	368.9	560	487	277.9	0 RUNNING	242	224
9/5/2018 15:08	134.56	3.92	52.9	369	560	476	278.16	0 RUNNING	242	224
9/5/2018 15:08	134.67	3.92	52.8	369	560	465	277.56	0 RUNNING	242	224
9/5/2018 15:08	135.48	3.92	52.8	369	560	455	279.17	0 RUNNING	242	224
9/5/2018 15:08	135.37	3.91	52.7	368.8	560	447	281.7	0 RUNNING	242	224
9/5/2018 15:08	135.37	3.91	52.6	368.7	560	435	280.3	0 RUNNING	242	224
9/5/2018 15:08	135.3	3.91	52.7	368.8	560	423	280.55	0 RUNNING	242	224
9/5/2018 15:08	134.19	3.92	52.7	368.9	560	411	274.82	0 RUNNING	242	224
9/5/2018 15:08	134.6	3.92	52.9	369.1	560	401	276.07	0 RUNNING	242	224
9/5/2018 15:08	134.66	3.92	52.8	369	560	391	277.63	0 RUNNING	242	224
9/5/2018 15:08	134.27	3.92	52.8	369	560	382	277.1	0 RUNNING	242	224
9/5/2018 15:08	134.41	3.92	52.9	369	560	374	277.18	0 RUNNING	242	224
9/5/2018 15:08	135.16	3.91	52.7	368.8	560	365	279.13	0 RUNNING	242	224
9/5/2018 15:08	134.54	3.91	52.7	368.8	560	357	276.09	0 RUNNING	242	224
9/5/2018 15:08	134.71	3.91	52.7	368.8	560	352	277.9	0 RUNNING	242	224
9/5/2018 15:08	134.33	3.91	52.8	368.9	560	350	276.86	0 RUNNING	242	224

9/5/2018 15:08	134.55	3.91	52.6	368.7	560	349	278.12	0 RUNNING	242	224
9/5/2018 15:08	134.46	3.91	52.6	368.7	560	352	276.02	0 RUNNING	242	224
9/5/2018 15:08	134.75	3.91	52.7	368.7	560	360	277.1	0 RUNNING	242	224
9/5/2018 15:09	134.43	3.91	52.7	368.8	560	367	279.15	0 RUNNING	242	224
9/5/2018 15:09	134.33	3.91	52.7	368.8	560	367	278.31	0 RUNNING	242	224
9/5/2018 15:09	134.82	3.92	52.9	369	560	370	279.22	0 RUNNING	242	224
9/5/2018 15:09	135.38	3.92	52.8	368.9	560	370	279.05	0 RUNNING	242	224
9/5/2018 15:09	134.16	3.91	52.8	368.9	560	373	276.99	0 RUNNING	242	224
9/5/2018 15:09	135.18	3.91	52.7	368.8	560	377	278.07	0 RUNNING	242	224
9/5/2018 15:09	135.19	3.91	52.7	368.8	560	376	279.77	0 RUNNING	242	224
9/5/2018 15:09	134.39	3.91	52.7	368.8	560	374	276.41	0 RUNNING	242	224
9/5/2018 15:09	135.34	3.92	52.8	368.9	560	374	279.68	0 RUNNING	242	224
9/5/2018 15:09	134.91	3.91	52.7	368.8	560	377	279.08	0 RUNNING	242	224
9/5/2018 15:09	134.21	3.91	52.7	368.7	560	377	276.65	0 RUNNING	242	224
9/5/2018 15:09	134.8	3.92	52.8	368.9	560	385	277.82	0 RUNNING	242	224
9/5/2018 15:09	135.27	3.91	52.7	368.8	560	396	278.5	0 RUNNING	242	224
9/5/2018 15:09	134.81	3.91	52.7	368.8	560	403	279.63	0 RUNNING	242	224
9/5/2018 15:09	135	3.91	52.7	368.8	560	414	279.99	0 RUNNING	242	224
9/5/2018 15:09	133.76	3.91	52.6	368.7	560	424	275.03	0 RUNNING	242	224
9/5/2018 15:09	135.42	3.9	52.6	368.7	560	434	276.64	0 RUNNING	242	224
9/5/2018 15:09	135.09	3.92	52.8	368.9	560	439	279.24	0 RUNNING	242	224
9/5/2018 15:09	134.94	3.91	52.7	368.9	560	450	278.16	0 RUNNING	242	224
9/5/2018 15:09	134.68	3.92	52.8	369	560	455	278.26	0 RUNNING	242	224
9/5/2018 15:09	135.19	3.91	52.7	368.7	560	456	277.82	0 RUNNING	242	224
9/5/2018 15:09	134.42	3.91	52.7	368.8	560	457	277.85	0 RUNNING	242	224
9/5/2018 15:09	135.26	3.9	52.5	368.6	560	455	278.33	0 RUNNING	242	224
9/5/2018 15:09	134.29	3.91	52.7	368.9	560	454	277.46	0 RUNNING	242	224
9/5/2018 15:09	135.66	3.9	52.6	368.6	560	454	278.21	0 RUNNING	242	224
9/5/2018 15:09	134.18	3.91	52.6	368.7	560	456	275.15	0 RUNNING	242	224
9/5/2018 15:09	133.96	3.9	52.6	368.6	560	459	276.76	0 RUNNING	242	224
9/5/2018 15:09	134.92	3.9	52.6	368.6	560	477	276.6	0 RUNNING	242	224
9/5/2018 15:09	134.21	3.9	52.5	368.5	560	492	277.03	0 RUNNING	242	224
9/5/2018 15:09	134.61	3.91	52.7	368.8	560	507	277.08	0 RUNNING	242	224
9/5/2018 15:09	134.89	3.9	52.6	368.6	560	515	279.15	0 RUNNING	242	224
9/5/2018 15:09	134.74	3.9	52.5	368.5	560	518	278.19	0 RUNNING	242	224
9/5/2018 15:09	135	3.9	52.6	368.6	560	521	278.41	0 RUNNING	242	224
9/5/2018 15:09	134.72	3.9	52.6	368.6	560	520	277.17	0 RUNNING	242	224
9/5/2018 15:09	134.45	3.9	52.6	368.6	560	519	277.97	0 RUNNING	242	224
9/5/2018 15:09	135.12	3.9	52.5	368.5	560	518	279.22	0 RUNNING	242	224
9/5/2018 15:09	134.38	3.9	52.6	368.6	560	518	278.28	0 RUNNING	242	224
9/5/2018 15:09	135.54	3.91	52.7	368.8	560	517	279.27	0 RUNNING	242	224
9/5/2018 15:09	135.54	3.91	52.7	368.8	560	517	278.28	0 RUNNING	242	224
9/5/2018 15:09	134.48	3.91	52.7	368.7	560	520	277.88	0 RUNNING	242	224
9/5/2018 15:09	134.8	3.9	52.6	368.6	560	520	277.88	0 RUNNING	242	224
9/5/2018 15:09	134.75	3.91	52.7	368.7	560	525	279.15	0 RUNNING	242	224
9/5/2018 15:09	134.32	3.91	52.6	368.6	560	525	279.7	0 RUNNING	242	224
9/5/2018 15:09	135.05	3.9	52.6	368.6	560	527	277.56	0 RUNNING	242	224
9/5/2018 15:09	134.5	3.91	52.7	368.8	560	528	279.17	0 RUNNING	242	224
9/5/2018 15:09	135.28	3.91	52.6	368.7	560	528	279.12	0 RUNNING	242	224
9/5/2018 15:09	135.22	3.9	52.5	368.5	560	526	276.62	0 RUNNING	242	224
9/5/2018 15:09	134.82	3.9	52.6	368.6	560	525	280.13	0 RUNNING	242	224
9/5/2018 15:09	134.86	3.9	52.5	368.6	560	525	278.31	0 RUNNING	242	224
9/5/2018 15:09	135.3	3.91	52.7	368.7	560	525	279.05	0 RUNNING	242	224
9/5/2018 15:09	135.23	3.91	52.7	368.7	560	526	281.24	0 RUNNING	242	224
9/5/2018 15:09	134.42	3.91	52.7	368.8	560	527	279.22	0 RUNNING	242	224
9/5/2018 15:09	134.46	3.92	52.8	368.9	560	529	277.13	0 RUNNING	242	224
9/5/2018 15:09	134.83	3.92	52.8	368.9	560	532	279.68	0 RUNNING	242	224
9/5/2018 15:09	134.8	3.91	52.6	368.7	560	531	276.28	0 RUNNING	242	224
9/5/2018 15:09	134.76	3.92	52.8	369	560	535	279.36	0 RUNNING	242	224
9/5/2018 15:09	134.07	3.91	52.5	368.6	560	532	277.37	0 RUNNING	242	224
9/5/2018 15:09	135.02	3.91	52.6	368.8	560	532	278.98	0 RUNNING	242	224
9/5/2018 15:09	134.68	3.92	52.7	368.9	560	530	280.11	0 RUNNING	242	224
9/5/2018 15:10	134.36	3.92	52.7	368.9	560	528	277.34	0 RUNNING	242	224
9/5/2018 15:10	134.89	3.92	52.7	368.9	560	527	279.44	0 RUNNING	242	224
9/5/2018 15:10	135.19	3.92	52.7	368.9	560	526	279.7	0 RUNNING	242	224

9/5/2018 15:10	134.35	3.91	52.6	368.8	560	527	276.24	0 RUNNING	242	224
9/5/2018 15:10	135.04	3.93	52.8	369.1	560	529	279.99	0 RUNNING	242	224
9/5/2018 15:10	134.88	3.93	52.8	369.1	560	531	278.45	0 RUNNING	242	224
9/5/2018 15:10	135.22	3.93	52.9	369.1	560	533	278.53	0 RUNNING	242	224
9/5/2018 15:10	134.33	3.93	52.9	369.1	560	535	280.57	0 RUNNING	242	224
9/5/2018 15:10	134.8	3.93	52.8	369.1	560	534	281.1	0 RUNNING	242	224
9/5/2018 15:10	135.29	3.92	52.7	368.9	560	534	278.72	0 RUNNING	242	224
9/5/2018 15:10	134.64	3.92	52.7	368.9	560	534	278.06	0 RUNNING	242	224
9/5/2018 15:10	135.01	3.93	52.8	369.1	560	532	280.13	0 RUNNING	242	224
9/5/2018 15:10	134.25	3.93	52.8	369.1	560	531	278.47	0 RUNNING	242	224
9/5/2018 15:10	134.58	3.94	52.9	369.2	560	529	278.64	0 RUNNING	242	224
9/5/2018 15:10	135.01	3.92	52.8	369	560	529	279.99	0 RUNNING	242	224
9/5/2018 15:10	134.83	3.93	52.8	369.1	560	528	279.73	0 RUNNING	242	224
9/5/2018 15:10	134.57	3.93	52.8	369	560	531	277.71	0 RUNNING	242	224
9/5/2018 15:10	135.15	3.93	52.8	369.1	560	531	281.05	0 RUNNING	242	224
9/5/2018 15:10	134.53	3.93	52.8	369	560	534	278.83	0 RUNNING	242	224
9/5/2018 15:10	135.76	3.92	52.7	369	560	534	281.51	0 RUNNING	242	224
9/5/2018 15:10	135	3.93	52.9	369.2	560	536	281.31	0 RUNNING	242	224
9/5/2018 15:10	134.87	3.93	52.8	369.1	560	536	280.66	0 RUNNING	242	224
9/5/2018 15:10	134.51	3.93	52.7	369	560	535	279.12	0 RUNNING	242	224
9/5/2018 15:10	135.11	3.93	52.8	369.1	560	533	280.62	0 RUNNING	242	224
9/5/2018 15:10	134.86	3.93	52.8	369.1	560	532	280.06	0 RUNNING	242	224
9/5/2018 15:10	135.06	3.93	52.8	369.1	560	530	279.77	0 RUNNING	242	224
9/5/2018 15:10	134.43	3.93	52.8	369.2	560	528	279.25	0 RUNNING	242	224
9/5/2018 15:10	134.55	3.94	52.9	369.3	560	529	281.08	0 RUNNING	242	224
9/5/2018 15:10	134.93	3.94	53	369.4	560	531	279.42	0 RUNNING	242	224
9/5/2018 15:10	134.95	3.94	52.9	369.3	560	532	278.95	0 RUNNING	242	224
9/5/2018 15:10	134.49	3.94	53	369.3	560	534	282.32	0 RUNNING	242	224
9/5/2018 15:10	134.75	3.93	52.7	369	560	534	277.41	0 RUNNING	242	224
9/5/2018 15:10	134.27	3.94	53	369.4	560	536	281.44	0 RUNNING	242	224
9/5/2018 15:10	133.2	3.94	52.6	369.1	560	534	279.08	0 RUNNING	242	224
9/5/2018 15:10	135.07	3.94	52.8	369.3	560	534	281.63	0 RUNNING	242	224
9/5/2018 15:10	134.93	3.95	53.1	369.5	560	533	281.67	0 RUNNING	242	224
9/5/2018 15:10	134.51	3.95	53	369.4	560	532	279.15	0 RUNNING	242	224
9/5/2018 15:10	135.09	3.94	52.9	369.3	560	531	281.56	0 RUNNING	242	224
9/5/2018 15:10	135.27	3.94	53	369.3	560	531	281.8	0 RUNNING	242	224
9/5/2018 15:10	134.19	3.94	52.9	369.4	560	529	278.55	0 RUNNING	242	224
9/5/2018 15:10	135.58	3.95	53.1	369.6	560	530	282.06	0 RUNNING	242	224
9/5/2018 15:10	135.21	3.95	53.1	369.6	560	532	281.27	0 RUNNING	242	224
9/5/2018 15:10	134.52	3.94	52.9	369.3	560	534	278.21	0 RUNNING	242	224
9/5/2018 15:10	134.48	3.95	53.1	369.5	560	536	278.18	0 RUNNING	242	224
9/5/2018 15:10	134.57	3.94	53	369.4	560	537	281.05	0 RUNNING	242	224
9/5/2018 15:10	135.46	3.94	52.9	369.3	560	536	280.69	0 RUNNING	242	224
9/5/2018 15:10	134.46	3.94	52.9	369.4	560	535	278.36	0 RUNNING	242	224
9/5/2018 15:10	134.67	3.95	53	369.5	560	535	281.63	0 RUNNING	242	224
9/5/2018 15:10	134.63	3.95	53	369.5	560	532	279.61	0 RUNNING	242	224
9/5/2018 15:10	134.42	3.94	52.9	369.3	560	531	277.64	0 RUNNING	242	224
9/5/2018 15:10	135.03	3.95	53.1	369.6	560	530	283.19	0 RUNNING	242	224
9/5/2018 15:10	134.44	3.95	52.9	369.4	560	528	281.03	0 RUNNING	242	224
9/5/2018 15:10	135.36	3.95	53	369.6	560	530	279.37	0 RUNNING	242	224
9/5/2018 15:10	134.44	3.95	53.1	369.7	560	533	280.55	0 RUNNING	242	224
9/5/2018 15:10	134.81	3.95	53.1	369.6	560	533	280.06	0 RUNNING	242	224
9/5/2018 15:10	135.31	3.96	53.1	369.7	560	536	281.29	0 RUNNING	242	224
9/5/2018 15:10	135.17	3.96	53.1	369.6	560	536	281.38	0 RUNNING	242	224
9/5/2018 15:10	134.41	3.95	53	369.6	560	536	279.27	0 RUNNING	242	224
9/5/2018 15:10	134.94	3.96	53.2	369.7	560	535	280.54	0 RUNNING	242	224
9/5/2018 15:11	134.87	3.95	53.2	369.7	560	535	280.62	0 RUNNING	242	224
9/5/2018 15:11	134.57	3.96	53.1	369.7	560	532	280.09	0 RUNNING	242	224
9/5/2018 15:11	135.17	3.95	53.1	369.6	560	531	279.61	0 RUNNING	242	224
9/5/2018 15:11	134.9	3.95	53.1	369.6	560	529	280.16	0 RUNNING	242	224
9/5/2018 15:11	134.58	3.95	53	369.5	560	530	281.2	0 RUNNING	242	224
9/5/2018 15:11	134.41	3.95	53	369.6	560	528	278.81	0 RUNNING	242	224
9/5/2018 15:11	134.58	3.96	53.2	369.8	560	532	278.96	0 RUNNING	242	224
9/5/2018 15:11	134.53	3.96	53.1	369.7	560	533	280.66	0 RUNNING	242	224
9/5/2018 15:11	133.39	3.95	52.7	369.3	560	530	279	0 RUNNING	242	224

9/5/2018 15:11	134.12	3.95	52.9	369.5	560	535	278.96	0 RUNNING	242	224
9/5/2018 15:11	134.9	3.96	53.1	369.7	560	536	280.76	0 RUNNING	242	224
9/5/2018 15:11	134.59	3.95	53	369.5	560	536	280.14	0 RUNNING	242	224
9/5/2018 15:11	134.54	3.94	52.9	369.3	560	534	279.61	0 RUNNING	242	224
9/5/2018 15:11	134.4	3.95	53.1	369.6	560	534	280.33	0 RUNNING	242	224
9/5/2018 15:11	134.61	3.96	53.1	369.6	560	532	281.44	0 RUNNING	242	224
9/5/2018 15:11	134.76	3.96	53.1	369.7	560	531	277.95	0 RUNNING	242	224
9/5/2018 15:11	134.55	3.96	53.2	369.8	560	530	282.5	0 RUNNING	242	224
9/5/2018 15:11	135.27	3.96	53.1	369.7	560	531	281.41	0 RUNNING	242	224
9/5/2018 15:11	134.47	3.96	53.1	369.8	560	531	279.32	0 RUNNING	242	224
9/5/2018 15:11	135	3.96	53.1	369.7	560	534	279.24	0 RUNNING	242	224
9/5/2018 15:11	135.21	3.97	53.2	369.9	560	535	282.28	0 RUNNING	242	224
9/5/2018 15:11	134.43	3.96	53.1	369.7	560	536	280.76	0 RUNNING	242	224
9/5/2018 15:11	135.06	3.97	53.2	368.1	560	536	281.91	0 RUNNING	242	224
9/5/2018 15:11	135.02	3.96	53.2	368	560	536	282.2	0 RUNNING	242	224
9/5/2018 15:11	134.71	3.96	53.1	368	560	535	279.63	0 RUNNING	242	224
9/5/2018 15:11	134.58	3.96	53.1	367.9	560	533	280.61	0 RUNNING	242	224
9/5/2018 15:11	134.7	3.95	53	367.8	560	533	282.45	0 RUNNING	242	224
9/5/2018 15:11	134.59	3.96	53	367.9	560	530	280.74	0 RUNNING	242	224
9/5/2018 15:11	135.26	3.96	53.2	368.1	560	531	282.03	0 RUNNING	242	224
9/5/2018 15:11	134.41	3.95	53	367.8	560	531	283.12	0 RUNNING	242	224
9/5/2018 15:11	134.87	3.96	53.1	368	560	531	280.83	0 RUNNING	242	224
9/5/2018 15:11	134.78	3.95	53	367.8	560	533	282.2	0 RUNNING	242	224
9/5/2018 15:11	134.56	3.97	53.1	369.8	560	534	281.12	0 RUNNING	242	224
9/5/2018 15:11	134.7	3.97	53.2	369.9	560	537	281.65	0 RUNNING	242	224
9/5/2018 15:11	134.9	3.96	53.1	369.7	560	536	281.55	0 RUNNING	242	224
9/5/2018 15:11	134.93	3.96	53.1	369.7	560	536	281.51	0 RUNNING	242	224
9/5/2018 15:11	135.03	3.96	53.2	369.8	560	536	283.29	0 RUNNING	242	224
9/5/2018 15:11	135.3	3.96	53.1	369.7	560	534	282.01	0 RUNNING	242	224
9/5/2018 15:11	135.15	3.96	53.1	369.6	560	533	282.97	0 RUNNING	242	224
9/5/2018 15:11	135.41	3.96	53.1	369.7	560	531	283.22	0 RUNNING	242	224
9/5/2018 15:11	134.85	3.96	53.1	369.6	560	530	281.63	0 RUNNING	242	224
9/5/2018 15:11	134.31	3.97	53.2	369.9	560	530	282.08	0 RUNNING	242	224
9/5/2018 15:11	134.83	3.97	53.3	368.3	560	533	282.04	0 RUNNING	242	224
9/5/2018 15:11	134.94	3.96	53.2	368.1	560	533	283.26	0 RUNNING	242	224
9/5/2018 15:11	135.44	3.97	53.1	368	560	533	281.99	0 RUNNING	242	224
9/5/2018 15:11	134.86	3.96	53.2	368.1	560	536	282.62	0 RUNNING	242	224
9/5/2018 15:11	134.28	3.97	53.2	368.2	560	536	280.95	0 RUNNING	242	224
9/5/2018 15:11	134.53	3.97	53.3	368.2	560	537	282.26	0 RUNNING	242	224
9/5/2018 15:11	133.44	3.97	52.8	367.8	560	533	280.14	0 RUNNING	242	224
9/5/2018 15:11	134.45	3.97	52.8	367.8	560	531	282.54	0 RUNNING	242	224
9/5/2018 15:11	134.69	3.97	53.2	368.1	560	532	281.07	0 RUNNING	242	224
9/5/2018 15:11	135.41	3.97	53.2	368.1	560	532	282.33	0 RUNNING	242	224
9/5/2018 15:11	134.47	3.96	53.1	369.7	560	529	281.07	0 RUNNING	242	224
9/5/2018 15:11	134.72	3.97	53.2	369.8	560	530	283.34	0 RUNNING	242	224
9/5/2018 15:11	135.1	3.97	53.3	369.9	560	531	282.74	0 RUNNING	242	224
9/5/2018 15:11	134.67	3.97	53.3	370	560	533	282.5	0 RUNNING	242	224
9/5/2018 15:11	134.63	3.96	53.1	369.7	560	533	281.85	0 RUNNING	242	224
9/5/2018 15:11	135.1	3.96	52.9	369.5	560	532	283.19	0 RUNNING	242	224
9/5/2018 15:11	133.6	3.96	52.7	369.5	560	531	282.62	0 RUNNING	242	224
9/5/2018 15:12	133.59	3.96	53	369.7	560	534	283.29	0 RUNNING	242	224
9/5/2018 15:12	133.24	3.96	52.8	369.5	560	531	278.57	0 RUNNING	242	224
9/5/2018 15:12	134.25	3.97	52.9	369.6	560	531	280.14	0 RUNNING	242	224
9/5/2018 15:12	134.64	3.96	53	369.7	560	530	283.05	0 RUNNING	242	224
9/5/2018 15:12	132.99	3.96	52.7	369.3	560	527	279.22	0 RUNNING	242	224
9/5/2018 15:12	133.67	3.96	53	369.6	560	528	280.81	0 RUNNING	242	224
9/5/2018 15:12	133.84	3.97	52.9	369.7	560	527	282.38	0 RUNNING	242	224
9/5/2018 15:12	134.33	3.96	52.9	369.6	560	527	283.87	0 RUNNING	242	224
9/5/2018 15:12	135.71	3.96	52.9	369.6	560	528	284.83	0 RUNNING	242	224
9/5/2018 15:12	134.26	3.97	53	369.7	560	531	282.57	0 RUNNING	242	224
9/5/2018 15:12	133.47	3.96	52.9	369.6	560	531	279.49	0 RUNNING	242	224
9/5/2018 15:12	133.2	3.98	53	369.8	560	532	278.81	0 RUNNING	242	224
9/5/2018 15:12	134.96	3.97	52.9	369.7	560	532	282.64	0 RUNNING	242	224
9/5/2018 15:12	135.57	3.97	52.9	368	560	531	285.38	0 RUNNING	242	224
9/5/2018 15:12	134.27	3.97	53.1	368.1	560	532	281.7	0 RUNNING	242	224

9/5/2018 15:12	134.63	3.97	53.3	368.2	560	532	279.63	0 RUNNING	242	224
9/5/2018 15:12	134.76	3.98	53.3	368.3	560	530	280.38	0 RUNNING	242	224
9/5/2018 15:12	134.95	3.96	53.2	368.1	560	530	281.39	0 RUNNING	242	224
9/5/2018 15:12	135.21	3.97	53.4	368.3	560	529	281.12	0 RUNNING	242	224
9/5/2018 15:12	135	3.97	53.3	368.3	560	530	281.51	0 RUNNING	242	224
9/5/2018 15:12	134.62	3.97	53.3	368.2	560	530	282.23	0 RUNNING	242	224
9/5/2018 15:12	134.02	3.97	53.2	368.2	560	531	281.19	0 RUNNING	242	224
9/5/2018 15:12	134.67	3.97	53.4	368.3	560	534	279.2	0 RUNNING	242	224
9/5/2018 15:12	135.24	3.98	53.4	370.1	560	536	283.96	0 RUNNING	242	224
9/5/2018 15:12	135.32	3.97	53.4	370.1	560	536	280.88	0 RUNNING	242	224
9/5/2018 15:12	133.65	3.97	53	369.7	560	532	281.89	0 RUNNING	242	224
9/5/2018 15:12	133.86	3.97	52.9	369.7	560	530	280.37	0 RUNNING	242	224
9/5/2018 15:12	135.26	3.97	53.2	370	560	531	284.32	0 RUNNING	242	224
9/5/2018 15:12	133.95	3.98	53.1	369.9	560	527	279.53	0 RUNNING	242	224
9/5/2018 15:12	133.91	3.97	53.1	369.8	560	526	282.26	0 RUNNING	242	224
9/5/2018 15:12	133.7	3.98	53.1	369.9	560	526	280.54	0 RUNNING	242	224
9/5/2018 15:12	134.8	3.98	53.3	370.1	560	528	280.19	0 RUNNING	242	224
9/5/2018 15:12	134.4	3.97	53.3	370	560	531	279.8	0 RUNNING	242	224
9/5/2018 15:12	134.82	3.97	53.4	370	560	532	281.61	0 RUNNING	242	224
9/5/2018 15:12	135.1	3.98	53.4	370.1	560	533	281.58	0 RUNNING	242	224
9/5/2018 15:12	135.1	3.98	53.4	370.1	560	535	279.49	0 RUNNING	242	224
9/5/2018 15:12	134.11	3.98	53.4	370.1	560	535	279.49	0 RUNNING	242	224
9/5/2018 15:12	135.12	3.97	53.4	370.1	560	537	283.21	0 RUNNING	242	224
9/5/2018 15:12	135.27	3.96	53.2	369.8	560	536	282.37	0 RUNNING	242	224
9/5/2018 15:12	134.39	3.97	53.4	370.1	560	535	282.8	0 RUNNING	242	224
9/5/2018 15:12	134.86	3.98	53.2	370	560	531	283.96	0 RUNNING	242	224
9/5/2018 15:12	133.98	3.97	52.9	369.6	560	527	282.86	0 RUNNING	242	224
9/5/2018 15:12	134.9	3.97	53.1	369.8	560	529	282.28	0 RUNNING	242	224
9/5/2018 15:12	135.11	3.97	53.3	370	560	530	282.92	0 RUNNING	242	224
9/5/2018 15:12	133.93	3.97	53.3	370	560	530	276.38	0 RUNNING	242	224
9/5/2018 15:12	135.06	3.97	53.3	370	560	531	283.07	0 RUNNING	242	224
9/5/2018 15:12	134.59	3.97	53.2	370	560	532	283.79	0 RUNNING	242	224
9/5/2018 15:12	134.24	3.98	53.3	370.1	560	536	282.26	0 RUNNING	242	224
9/5/2018 15:12	134.33	3.98	53.5	370.3	560	536	281.55	0 RUNNING	242	224
9/5/2018 15:12	134.86	3.98	53.4	370.2	560	538	283.45	0 RUNNING	242	224
9/5/2018 15:12	135.58	3.98	53.4	370.3	560	537	282.76	0 RUNNING	242	224
9/5/2018 15:12	135.24	3.99	53.5	370.3	560	536	282.98	0 RUNNING	242	224
9/5/2018 15:12	134.61	3.98	53.4	370.1	560	534	282.38	0 RUNNING	242	224
9/5/2018 15:12	134.78	3.97	53.3	370	560	531	278.47	0 RUNNING	242	224
9/5/2018 15:12	134.52	3.98	53.4	370.2	560	532	284.04	0 RUNNING	242	224
9/5/2018 15:12	135.14	3.98	53.4	370.2	560	531	283.31	0 RUNNING	242	224
9/5/2018 15:12	134.48	3.98	53.3	370.1	560	530	280.4	0 RUNNING	242	224
9/5/2018 15:12	134.87	3.98	53.5	370.3	560	531	283.67	0 RUNNING	242	224
9/5/2018 15:12	134.79	3.98	53.4	370.2	560	533	281.79	0 RUNNING	242	224
9/5/2018 15:13	133.36	3.98	53.4	370.2	560	533	280.69	0 RUNNING	242	224
9/5/2018 15:13	134.29	3.99	53.5	370.4	560	536	280.72	0 RUNNING	242	224
9/5/2018 15:13	135.56	3.99	53.5	370.3	560	537	281.94	0 RUNNING	242	224
9/5/2018 15:13	134.2	3.99	53.5	370.4	560	537	280.49	0 RUNNING	242	224
9/5/2018 15:13	135.11	3.99	53.5	370.4	560	536	281.41	0 RUNNING	242	224
9/5/2018 15:13	134.31	3.99	53.5	370.4	560	535	284.11	0 RUNNING	242	224
9/5/2018 15:13	134.52	3.98	53.3	370.1	560	532	280.61	0 RUNNING	242	224
9/5/2018 15:13	134.87	3.98	53.5	370.3	560	532	282.18	0 RUNNING	242	224
9/5/2018 15:13	133.69	3.97	53	369.8	560	526	281	0 RUNNING	242	224
9/5/2018 15:13	135.16	3.97	53.3	370	560	530	281.6	0 RUNNING	242	224
9/5/2018 15:13	133.21	3.97	53.3	370	560	531	280.81	0 RUNNING	242	224
9/5/2018 15:13	134.2	3.98	53	369.8	560	529	282.56	0 RUNNING	242	224
9/5/2018 15:13	134.89	3.98	53.2	370	560	531	282.25	0 RUNNING	242	224
9/5/2018 15:13	133.03	3.98	53.1	369.9	560	532	279.97	0 RUNNING	242	224
9/5/2018 15:13	133.65	3.98	53.3	370.1	560	535	281.46	0 RUNNING	242	224
9/5/2018 15:13	134.26	3.98	53.1	369.9	560	533	283.17	0 RUNNING	242	224
9/5/2018 15:13	134.65	3.98	53	369.8	560	531	283.22	0 RUNNING	242	224
9/5/2018 15:13	133.41	3.98	53.1	370	560	531	280.79	0 RUNNING	242	224
9/5/2018 15:13	133	3.98	53	369.8	560	529	280.81	0 RUNNING	242	224
9/5/2018 15:13	133.82	3.97	52.9	369.7	560	527	282.15	0 RUNNING	242	224
9/5/2018 15:13	134.49	3.98	53	369.8	560	524	283.91	0 RUNNING	242	224

9/5/2018 15:13	135.05	3.98	53.1	370	560	526	284.83	0 RUNNING	242	224
9/5/2018 15:13	134.45	3.98	53.1	369.9	560	527	283.36	0 RUNNING	242	224
9/5/2018 15:13	132.69	3.98	52.9	369.7	560	527	279.89	0 RUNNING	242	224
9/5/2018 15:13	132.24	3.99	53	369.9	560	528	278.45	0 RUNNING	242	224
9/5/2018 15:13	134.15	3.97	53	369.8	560	533	283.53	0 RUNNING	242	224
9/5/2018 15:13	134.62	3.98	53	369.9	560	532	283.6	0 RUNNING	242	224
9/5/2018 15:13	134.5	3.99	53.3	370.2	560	534	281.84	0 RUNNING	242	224
9/5/2018 15:13	134.86	3.98	53.3	370.1	560	533	283.74	0 RUNNING	242	224
9/5/2018 15:13	135.18	3.99	53.5	370.4	560	536	282.28	0 RUNNING	242	224
9/5/2018 15:13	133.54	3.98	53.1	370	560	530	278.38	0 RUNNING	242	224
9/5/2018 15:13	134.72	3.98	53.2	370.1	560	529	284.01	0 RUNNING	242	224
9/5/2018 15:13	134.73	3.98	53.2	370.1	560	527	284.04	0 RUNNING	242	224
9/5/2018 15:13	133.39	3.98	53.1	370	560	526	280.55	0 RUNNING	242	224
9/5/2018 15:13	133.93	3.98	53.1	369.9	560	526	280.64	0 RUNNING	242	224
9/5/2018 15:13	133.02	3.98	53.1	370	560	525	279.08	0 RUNNING	242	224
9/5/2018 15:13	134.34	3.98	53.1	370	560	528	281.72	0 RUNNING	242	224
9/5/2018 15:13	135.37	3.98	53.1	369.9	560	529	283.05	0 RUNNING	242	224
9/5/2018 15:13	133.32	3.98	53.3	370	560	531	279.12	0 RUNNING	242	224
9/5/2018 15:13	132.2	3.97	52.9	369.8	560	528	276.98	0 RUNNING	242	224
9/5/2018 15:13	133.4	3.97	53	369.8	560	530	280.62	0 RUNNING	242	224
9/5/2018 15:13	135.44	3.97	53	369.8	560	528	282.21	0 RUNNING	242	224
9/5/2018 15:13	134.09	3.97	53	369.7	560	524	281.44	0 RUNNING	242	224
9/5/2018 15:13	133.3	3.97	53	369.7	560	523	278.11	0 RUNNING	242	224
9/5/2018 15:13	133.22	3.97	53.2	369.9	560	522	277.71	0 RUNNING	242	224
9/5/2018 15:13	134.83	3.98	53.6	370.2	560	526	279.07	0 RUNNING	242	224
9/5/2018 15:13	134.87	3.98	53.7	370.5	560	525	278.28	0 RUNNING	242	224
9/5/2018 15:13	133.31	3.97	53.3	370	560	523	280.93	0 RUNNING	242	224
9/5/2018 15:13	134.91	3.97	53.3	370	560	524	277.68	0 RUNNING	242	224
9/5/2018 15:13	134.79	3.98	53.6	370.3	560	527	280.74	0 RUNNING	242	224
9/5/2018 15:13	132.73	3.97	53	369.8	560	522	277.73	0 RUNNING	242	224
9/5/2018 15:13	133.6	3.97	53.1	369.7	560	525	279.75	0 RUNNING	242	224
9/5/2018 15:13	135.15	3.97	53	369.7	560	522	280.11	0 RUNNING	242	224
9/5/2018 15:13	135.26	3.98	53.3	370.1	560	523	282.16	0 RUNNING	242	224
9/5/2018 15:13	133.56	3.97	53.1	369.8	560	517	278.86	0 RUNNING	242	224
9/5/2018 15:13	131.83	3.97	53	369.7	560	515	275.47	0 RUNNING	242	224
9/5/2018 15:13	133.32	3.97	53	369.8	560	512	278.11	0 RUNNING	242	224
9/5/2018 15:13	134.39	3.97	52.9	369.6	560	510	280.47	0 RUNNING	242	224
9/5/2018 15:13	133.94	3.98	53.1	369.9	560	509	280.18	0 RUNNING	242	224
9/5/2018 15:14	133.68	3.97	53.2	369.9	560	511	279.01	0 RUNNING	242	224
9/5/2018 15:14	132.37	3.97	53	369.7	560	510	277.17	0 RUNNING	242	224
9/5/2018 15:14	133.79	3.97	53	369.8	560	510	278.76	0 RUNNING	242	224
9/5/2018 15:14	135.36	3.97	53.1	369.8	560	507	283.1	0 RUNNING	242	224
9/5/2018 15:14	133.59	3.97	53.1	369.8	560	504	278.88	0 RUNNING	242	224
9/5/2018 15:14	132.69	3.97	52.9	369.7	560	499	276.87	0 RUNNING	242	224
9/5/2018 15:14	132.84	3.96	52.8	369.5	560	492	275.18	0 RUNNING	242	224
9/5/2018 15:14	135.79	3.97	52.9	369.7	560	483	283.07	0 RUNNING	242	224
9/5/2018 15:14	133.68	3.97	53	369.8	560	477	279.49	0 RUNNING	242	224
9/5/2018 15:14	131.57	3.96	52.9	369.6	560	475	278	0 RUNNING	242	224
9/5/2018 15:14	134.11	3.97	52.9	369.6	560	471	279.03	0 RUNNING	242	224
9/5/2018 15:14	135.11	3.97	53	369.7	560	467	281.14	0 RUNNING	242	224
9/5/2018 15:14	133.26	3.97	53.2	369.9	560	466	279.3	0 RUNNING	242	224
9/5/2018 15:14	131.47	3.97	53	369.7	560	461	275.71	0 RUNNING	242	224
9/5/2018 15:14	133.59	3.97	52.8	369.6	560	459	277.99	0 RUNNING	242	224
9/5/2018 15:14	134.99	3.97	53.1	369.8	560	457	282.2	0 RUNNING	242	224
9/5/2018 15:14	133.75	3.96	52.9	369.6	560	460	274.34	0 RUNNING	242	224
9/5/2018 15:14	132.07	3.96	52.9	369.6	560	458	273.59	0 RUNNING	242	224
9/5/2018 15:14	134.57	3.96	52.9	369.6	560	453	282.69	0 RUNNING	242	224
9/5/2018 15:14	133.21	3.96	52.5	369.3	560	448	276.74	0 RUNNING	242	224
9/5/2018 15:14	133.08	3.96	53.2	369.8	560	447	280.76	0 RUNNING	242	224
9/5/2018 15:14	133.4	3.96	52.7	369.4	560	445	277.73	0 RUNNING	242	224
9/5/2018 15:14	135.52	3.96	53	369.6	560	447	284.63	0 RUNNING	242	224
9/5/2018 15:14	133.35	3.96	52.9	369.6	560	450	276.24	0 RUNNING	242	224
9/5/2018 15:14	132.56	3.96	52.9	369.5	560	448	277.23	0 RUNNING	242	224
9/5/2018 15:14	135.01	3.96	52.8	369.5	560	443	281.14	0 RUNNING	242	224
9/5/2018 15:14	133.68	3.96	53	369.6	560	444	279.12	0 RUNNING	242	224

9/5/2018 15:14	132.79	3.96	52.9	369.6	560	447	276.57	0 RUNNING	242	224
9/5/2018 15:14	136.07	3.96	53	369.6	560	451	282.62	0 RUNNING	242	224
9/5/2018 15:14	132.84	3.96	52.9	369.5	560	454	277.1	0 RUNNING	242	224
9/5/2018 15:14	132.55	3.95	52.7	369.3	560	455	275.57	0 RUNNING	242	224
9/5/2018 15:14	134.13	3.95	52.7	369.3	560	455	279.77	0 RUNNING	242	224
9/5/2018 15:14	135.16	3.96	52.8	369.5	560	454	281.97	0 RUNNING	242	224
9/5/2018 15:14	132.74	3.95	52.7	369.3	560	454	277.83	0 RUNNING	242	224
9/5/2018 15:14	132.55	3.95	52.7	369.3	560	456	276.04	0 RUNNING	242	224
9/5/2018 15:14	135.01	3.94	52.6	369.1	560	457	280.55	0 RUNNING	242	224
9/5/2018 15:14	132.74	3.95	52.8	369.3	560	458	278.24	0 RUNNING	242	224
9/5/2018 15:14	132.54	3.95	52.7	369.3	560	461	276.93	0 RUNNING	242	224
9/5/2018 15:14	134.38	3.95	52.7	369.3	560	463	278.77	0 RUNNING	242	224
9/5/2018 15:14	134.35	3.96	52.9	369.5	560	465	282.26	0 RUNNING	242	224
9/5/2018 15:14	131.82	3.94	52.7	369.2	560	465	276.57	0 RUNNING	242	224
9/5/2018 15:14	134.82	3.94	52.6	369.1	560	468	280.95	0 RUNNING	242	224
9/5/2018 15:14	134.81	3.94	52.8	369.2	560	469	281.17	0 RUNNING	242	224
9/5/2018 15:14	132.53	3.94	52.6	369.1	560	467	277.61	0 RUNNING	242	224
9/5/2018 15:14	133.52	3.94	52.5	369	560	466	277.95	0 RUNNING	242	224
9/5/2018 15:14	134.5	3.94	52.8	369.2	560	465	284.1	0 RUNNING	242	224
9/5/2018 15:14	133.2	3.94	52.6	369.1	560	465	278.33	0 RUNNING	242	224
9/5/2018 15:14	131.66	3.94	52.6	369.1	560	465	277.29	0 RUNNING	242	224
9/5/2018 15:14	133.36	3.94	52.5	369	560	468	276.17	0 RUNNING	242	224
9/5/2018 15:14	134.97	3.94	52.5	369	560	468	283.34	0 RUNNING	242	224
9/5/2018 15:14	134.02	3.94	52.6	369	560	471	281.2	0 RUNNING	242	224
9/5/2018 15:14	132.56	3.95	52.7	369.2	560	475	277.73	0 RUNNING	242	224
9/5/2018 15:14	130.84	3.95	52.6	369.1	560	476	273.47	0 RUNNING	242	224
9/5/2018 15:14	133.59	3.95	52.6	369.2	560	478	276.26	0 RUNNING	242	224
9/5/2018 15:14	134.16	3.94	52.6	369.1	560	476	281.72	0 RUNNING	242	224
9/5/2018 15:14	133.31	3.94	52.8	369.3	560	476	278.47	0 RUNNING	242	224
9/5/2018 15:14	131.83	3.93	52.5	369	560	477	277.64	0 RUNNING	242	224
9/5/2018 15:14	132.56	3.94	52.5	369	560	476	275.47	0 RUNNING	242	224
9/5/2018 15:14	134.16	3.94	52.5	369	560	476	279.08	0 RUNNING	242	224
9/5/2018 15:14	136.14	3.94	52.7	369.2	560	476	284.61	0 RUNNING	242	224
9/5/2018 15:15	132.38	3.94	52.6	369.1	560	478	277.37	0 RUNNING	242	224
9/5/2018 15:15	130.95	3.94	52.6	369	560	480	274.39	0 RUNNING	242	224
9/5/2018 15:15	132.29	3.93	52.2	368.7	560	482	273.93	0 RUNNING	242	224
9/5/2018 15:15	135.53	3.94	52.7	369.1	560	487	282.03	0 RUNNING	242	224
9/5/2018 15:15	133.23	3.94	52.7	369.1	560	487	280.23	0 RUNNING	242	224
9/5/2018 15:15	132.07	3.94	52.5	369	560	488	276.12	0 RUNNING	242	224
9/5/2018 15:15	132.73	3.94	52.6	369.1	560	488	277.27	0 RUNNING	242	224
9/5/2018 15:15	135.78	3.94	52.6	369.1	560	488	282.03	0 RUNNING	242	224
9/5/2018 15:15	135.14	3.94	52.6	369.1	560	485	283.07	0 RUNNING	242	224
9/5/2018 15:15	131.85	3.94	52.5	368.9	560	484	273.66	0 RUNNING	242	224
9/5/2018 15:15	132.11	3.93	52.4	368.8	560	483	276.5	0 RUNNING	242	224
9/5/2018 15:15	135.17	3.94	52.5	369	560	483	280.84	0 RUNNING	242	224
9/5/2018 15:15	135.22	3.94	52.6	369	560	483	282.81	0 RUNNING	242	224
9/5/2018 15:15	134.03	3.94	52.5	368.9	560	484	279.3	0 RUNNING	242	224
9/5/2018 15:15	131.83	3.94	52.5	369	560	482	274.29	0 RUNNING	242	224
9/5/2018 15:15	134.27	3.93	52.3	368.7	560	475	278.91	0 RUNNING	242	224
9/5/2018 15:15	135.05	3.94	52.6	369.1	560	466	281.02	0 RUNNING	242	224
9/5/2018 15:15	133.93	3.94	52.6	369.1	560	466	281	0 RUNNING	242	224
9/5/2018 15:15	131.21	3.94	52.5	369	560	468	275.44	0 RUNNING	242	224
9/5/2018 15:15	131.88	3.95	52.6	369.2	560	472	274.68	0 RUNNING	242	224
9/5/2018 15:15	134.08	3.94	52.4	368.9	560	474	279.82	0 RUNNING	242	224
9/5/2018 15:15	135.45	3.94	52.6	369.1	560	476	282.69	0 RUNNING	242	224
9/5/2018 15:15	134.16	3.93	52.6	369	560	477	280.64	0 RUNNING	242	224
9/5/2018 15:15	131.81	3.94	52.6	369	560	480	275.21	0 RUNNING	242	224
9/5/2018 15:15	131.28	3.93	52.3	368.8	560	483	273.88	0 RUNNING	242	224
9/5/2018 15:15	133.56	3.94	52.5	369	560	487	277.8	0 RUNNING	242	224
9/5/2018 15:15	134.7	3.94	52.5	368.9	560	490	282.66	0 RUNNING	242	224
9/5/2018 15:15	135.17	3.94	52.6	369.1	560	495	280.02	0 RUNNING	242	224
9/5/2018 15:15	135.17	3.94	52.6	369.1	560	499	278.18	0 RUNNING	242	224
9/5/2018 15:15	132.34	3.94	52.7	369.1	560	499	278.18	0 RUNNING	242	224
9/5/2018 15:15	130.91	3.94	52.5	368.9	560	500	274.87	0 RUNNING	242	224
9/5/2018 15:15	133.24	3.94	52.5	368.9	560	502	277.82	0 RUNNING	242	224

9/5/2018 15:15	135.33	3.93	52.5	368.9	560	504	282.61	0 RUNNING	242	224
9/5/2018 15:15	134.39	3.94	52.7	369.1	560	503	282.13	0 RUNNING	242	224
9/5/2018 15:15	132.46	3.94	52.6	369	560	503	277.05	0 RUNNING	242	224
9/5/2018 15:15	132.31	3.94	52.5	369	560	503	275.42	0 RUNNING	242	224
9/5/2018 15:15	132.6	3.94	52.5	369	560	504	277.1	0 RUNNING	242	224
9/5/2018 15:15	134.67	3.94	52.4	368.9	560	503	281.39	0 RUNNING	242	224
9/5/2018 15:15	134.61	3.94	52.6	369.1	560	506	281.6	0 RUNNING	242	224
9/5/2018 15:15	133.36	3.94	52.6	369.1	560	508	278.43	0 RUNNING	242	224
9/5/2018 15:15	131.5	3.94	52.5	369	560	509	273.28	0 RUNNING	242	224
9/5/2018 15:15	132.49	3.94	52.6	369.1	560	512	276.84	0 RUNNING	242	224
9/5/2018 15:15	135.02	3.94	52.4	368.9	560	512	280.33	0 RUNNING	242	224
9/5/2018 15:15	132.84	3.94	52.6	369	560	514	278.88	0 RUNNING	242	224
9/5/2018 15:15	131.13	3.94	52.6	369	560	515	274.91	0 RUNNING	242	224
9/5/2018 15:15	132.92	3.93	52.5	368.9	560	512	278.24	0 RUNNING	242	224
9/5/2018 15:15	135.13	3.94	52.6	369	560	513	281.92	0 RUNNING	242	224
9/5/2018 15:15	133.65	3.93	52.5	368.9	560	511	280.67	0 RUNNING	242	224
9/5/2018 15:15	132.14	3.94	52.6	369.1	560	510	274.99	0 RUNNING	242	224
9/5/2018 15:15	132.33	3.94	52.5	369	560	510	274.55	0 RUNNING	242	224
9/5/2018 15:15	134.05	3.94	52.5	369	560	512	279.7	0 RUNNING	242	224
9/5/2018 15:15	134.48	3.93	52.6	369	560	514	281.91	0 RUNNING	242	224
9/5/2018 15:15	131.83	3.94	52.7	369.1	560	517	276.77	0 RUNNING	242	224
9/5/2018 15:15	132.34	3.94	52.5	369	560	517	274.77	0 RUNNING	242	224
9/5/2018 15:15	135.02	3.94	52.6	369	560	521	280.74	0 RUNNING	242	224
9/5/2018 15:15	133.58	3.94	52.6	369.1	560	520	280.11	0 RUNNING	242	224
9/5/2018 15:15	131.89	3.94	52.7	369.2	560	521	275.92	0 RUNNING	242	224
9/5/2018 15:15	131.49	3.94	52.4	369	560	518	274.38	0 RUNNING	242	224
9/5/2018 15:15	133.94	3.94	52.5	369	560	519	280.09	0 RUNNING	242	224
9/5/2018 15:16	135.55	3.94	52.6	369.1	560	517	282.38	0 RUNNING	242	224
9/5/2018 15:16	133.88	3.94	52.6	369.1	560	516	280.35	0 RUNNING	242	224
9/5/2018 15:16	132.21	3.94	52.6	369	560	516	275.63	0 RUNNING	242	224
9/5/2018 15:16	132.16	3.95	52.7	369.2	560	517	277.03	0 RUNNING	242	224
9/5/2018 15:16	132.62	3.94	52.4	368.9	560	516	275.32	0 RUNNING	242	224
9/5/2018 15:16	135.56	3.94	52.7	369.2	560	522	283.22	0 RUNNING	242	224
9/5/2018 15:16	135.02	3.93	52.5	368.9	560	523	281.27	0 RUNNING	242	224
9/5/2018 15:16	132.38	3.93	52.6	369	560	524	276.48	0 RUNNING	242	224
9/5/2018 15:16	133.74	3.94	52.6	369.1	560	523	278.41	0 RUNNING	242	224
9/5/2018 15:16	135.09	3.94	52.6	369.1	560	525	281.8	0 RUNNING	242	224
9/5/2018 15:16	135.23	3.94	52.7	369.2	560	524	281.87	0 RUNNING	242	224
9/5/2018 15:16	132.01	3.94	52.6	369.1	560	522	276.02	0 RUNNING	242	224
9/5/2018 15:16	133.49	3.94	52.5	369	560	521	279.2	0 RUNNING	242	224
9/5/2018 15:16	135.26	3.95	52.6	369.2	560	519	281.75	0 RUNNING	242	224
9/5/2018 15:16	134.41	3.95	52.8	369.3	560	520	280.49	0 RUNNING	242	224
9/5/2018 15:16	132.9	3.95	52.7	369.3	560	520	278.74	0 RUNNING	242	224
9/5/2018 15:16	131.27	3.95	52.6	369.2	560	520	273.32	0 RUNNING	242	224
9/5/2018 15:16	134.94	3.95	52.7	369.3	560	523	281.65	0 RUNNING	242	224
9/5/2018 15:16	135.76	3.95	52.8	369.3	560	524	284.15	0 RUNNING	242	224
9/5/2018 15:16	133.09	3.95	52.8	369.3	560	527	279.58	0 RUNNING	242	224
9/5/2018 15:16	132.24	3.95	52.6	369.2	560	527	276.67	0 RUNNING	242	224
9/5/2018 15:16	131.56	3.95	52.7	369.3	560	526	276.29	0 RUNNING	242	224
9/5/2018 15:16	133.03	3.96	52.8	369.4	560	525	278.11	0 RUNNING	242	224
9/5/2018 15:16	134.77	3.95	52.7	369.3	560	524	279.72	0 RUNNING	242	224
9/5/2018 15:16	135.53	3.95	52.8	369.4	560	525	283.58	0 RUNNING	242	224
9/5/2018 15:16	132.72	3.96	52.9	369.6	560	522	277.71	0 RUNNING	242	224
9/5/2018 15:16	132.08	3.95	52.7	369.3	560	521	276.5	0 RUNNING	242	224
9/5/2018 15:16	131.94	3.96	52.8	369.4	560	520	278.4	0 RUNNING	242	224
9/5/2018 15:16	135.33	3.95	52.7	369.3	560	523	281.34	0 RUNNING	242	224
9/5/2018 15:16	134.21	3.95	52.8	369.4	560	526	279.68	0 RUNNING	242	224
9/5/2018 15:16	131.7	3.95	52.7	369.3	560	526	276.82	0 RUNNING	242	224
9/5/2018 15:16	132.1	3.95	52.8	369.4	560	528	275.64	0 RUNNING	242	224
9/5/2018 15:16	132.98	3.96	52.8	369.5	560	528	279.63	0 RUNNING	242	224
9/5/2018 15:16	134.53	3.96	52.7	369.3	560	527	280.91	0 RUNNING	242	224
9/5/2018 15:16	134.67	3.96	52.8	369.5	560	529	280.26	0 RUNNING	242	224
9/5/2018 15:16	132.77	3.96	52.9	369.6	560	527	277.47	0 RUNNING	242	224
9/5/2018 15:16	132.48	3.96	52.8	369.5	560	525	277.03	0 RUNNING	242	224
9/5/2018 15:16	134.3	3.96	52.7	369.4	560	523	280.33	0 RUNNING	242	224

9/5/2018 15:16	134.93	3.97	53	369.7	560	524	282.81	0 RUNNING	242	224
9/5/2018 15:16	133.14	3.97	53.1	369.8	560	525	279.65	0 RUNNING	242	224
9/5/2018 15:16	131.79	3.97	52.9	369.6	560	524	276	0 RUNNING	242	224
9/5/2018 15:16	131.52	3.97	52.9	369.7	560	527	275.33	0 RUNNING	242	224
9/5/2018 15:16	133.67	3.96	52.8	369.5	560	528	278.52	0 RUNNING	242	224
9/5/2018 15:16	135.7	3.97	53	369.8	560	529	284.04	0 RUNNING	242	224
9/5/2018 15:16	134.83	3.97	52.9	369.7	560	529	282.4	0 RUNNING	242	224
9/5/2018 15:16	132.33	3.98	53.1	369.9	560	532	277.64	0 RUNNING	242	224
9/5/2018 15:16	132.12	3.98	52.9	369.8	560	528	276.33	0 RUNNING	242	224
9/5/2018 15:16	135.29	3.98	53.1	370	560	529	282.47	0 RUNNING	242	224
9/5/2018 15:16	134.66	3.98	53.1	369.9	560	527	282.93	0 RUNNING	242	224
9/5/2018 15:16	133.11	3.97	53.1	369.9	560	527	280.5	0 RUNNING	242	224
9/5/2018 15:16	132.53	3.97	52.8	369.6	560	523	275.93	0 RUNNING	242	224
9/5/2018 15:16	133.16	3.98	53	369.9	560	523	278.19	0 RUNNING	242	224
9/5/2018 15:16	135.19	3.98	53.1	370	560	526	284.4	0 RUNNING	242	224
9/5/2018 15:16	134.89	3.98	53.1	370	560	527	282.18	0 RUNNING	242	224
9/5/2018 15:16	132.77	3.99	53.3	370.2	560	530	277.58	0 RUNNING	242	224
9/5/2018 15:16	132.41	3.99	53.1	370.1	560	531	276.41	0 RUNNING	242	224
9/5/2018 15:16	133.89	3.99	53.2	370.1	560	531	281.22	0 RUNNING	242	224
9/5/2018 15:16	135.39	3.99	53.2	370.2	560	532	283.98	0 RUNNING	242	224
9/5/2018 15:16	133.12	3.99	53.2	370.2	560	531	281.58	0 RUNNING	242	224
9/5/2018 15:17	132.43	3.99	53.1	371.7	560	529	279.08	0 RUNNING	242	224
9/5/2018 15:17	134.43	3.99	53	371.7	560	527	280.62	0 RUNNING	242	224
9/5/2018 15:17	135.13	3.99	53.2	371.9	560	526	282.57	0 RUNNING	242	224
9/5/2018 15:17	133.61	4	53.3	372	560	527	283.27	0 RUNNING	242	224
9/5/2018 15:17	131.18	3.99	53.1	371.8	560	526	275.99	0 RUNNING	242	224
9/5/2018 15:17	133.41	3.99	53.1	371.9	560	526	279.3	0 RUNNING	242	224
9/5/2018 15:17	135	3.99	53.1	371.8	560	527	285.02	0 RUNNING	242	224
9/5/2018 15:17	134.11	4	53.3	372	560	530	281.75	0 RUNNING	242	224
9/5/2018 15:17	132.84	4.01	53.4	372.3	560	532	279.58	0 RUNNING	242	224
9/5/2018 15:17	131.78	4.01	53.3	372.1	560	531	276.87	0 RUNNING	242	224
9/5/2018 15:17	133.13	4	53.2	372	560	533	279.61	0 RUNNING	242	224
9/5/2018 15:17	134.8	4	53.3	372	560	532	283.82	0 RUNNING	242	224
9/5/2018 15:17	134.96	4	53.1	371.9	560	530	283.53	0 RUNNING	242	224
9/5/2018 15:17	133.46	4	53.3	372.1	560	530	281.8	0 RUNNING	242	224
9/5/2018 15:17	132.76	4	53.2	372	560	527	278.96	0 RUNNING	242	224
9/5/2018 15:17	133.11	4	53.2	371.9	560	526	280.13	0 RUNNING	242	224
9/5/2018 15:17	135.01	4	53.2	372	560	525	283.89	0 RUNNING	242	224
9/5/2018 15:17	134.73	4	53.3	372.1	560	526	281.85	0 RUNNING	242	224
9/5/2018 15:17	133.39	4	53.4	372.2	560	528	281.08	0 RUNNING	242	224
9/5/2018 15:17	132.65	4	53.3	372.1	560	528	279.72	0 RUNNING	242	224
9/5/2018 15:17	134.26	4	53	371.8	560	528	280.3	0 RUNNING	242	224
9/5/2018 15:17	135.67	4	53.3	372	560	532	283.41	0 RUNNING	242	224
9/5/2018 15:17	133.34	4.01	53.4	372.3	560	533	280.47	0 RUNNING	242	224
9/5/2018 15:17	132.49	4.01	53.4	372.3	560	533	279.68	0 RUNNING	242	224
9/5/2018 15:17	132.01	4.01	53.3	372.1	560	530	277.06	0 RUNNING	242	224
9/5/2018 15:17	134.7	4	53.2	372	560	529	283.21	0 RUNNING	242	224
9/5/2018 15:17	135.5	4	53.4	372.2	560	528	286.59	0 RUNNING	242	224
9/5/2018 15:17	133.55	4.02	53.4	372.4	560	525	281.15	0 RUNNING	242	224
9/5/2018 15:17	131.8	4.01	53.4	372.2	560	527	276.21	0 RUNNING	242	224
9/5/2018 15:17	132.65	4.02	53.4	372.4	560	525	279.65	0 RUNNING	242	224
9/5/2018 15:17	133.44	4.01	53.1	372	560	526	279.65	0 RUNNING	242	224
9/5/2018 15:17	134.41	4.01	53.3	372.3	560	529	282.95	0 RUNNING	242	224
9/5/2018 15:17	135.74	4.01	53.4	372.2	560	531	284.37	0 RUNNING	242	224
9/5/2018 15:17	132.98	4.01	53.4	372.3	560	532	281.1	0 RUNNING	242	224
9/5/2018 15:17	131.79	4.02	53.4	372.4	560	533	278.04	0 RUNNING	242	224
9/5/2018 15:17	133.17	4.02	53.3	372.3	560	532	278.23	0 RUNNING	242	224
9/5/2018 15:17	135.49	4.02	53.4	372.3	560	533	281.75	0 RUNNING	242	224
9/5/2018 15:17	135.42	4.01	53.4	372.3	560	530	286.58	0 RUNNING	242	224
9/5/2018 15:17	132.43	4.02	53.6	372.5	560	531	281.29	0 RUNNING	242	224
9/5/2018 15:17	132.83	4.02	53.3	372.4	560	527	278.35	0 RUNNING	242	224
9/5/2018 15:17	133.54	4.02	53.4	372.5	560	526	280.14	0 RUNNING	242	224
9/5/2018 15:17	135.9	4.02	53.6	372.5	560	529	286.51	0 RUNNING	242	224
9/5/2018 15:17	134.5	4.02	53.5	372.4	560	529	284.22	0 RUNNING	242	224
9/5/2018 15:17	132.38	4.02	53.6	372.6	560	530	279.01	0 RUNNING	242	224

9/5/2018 15:17	132.84	4.02	53.5	372.5	560	532	279.95	0 RUNNING	242	224
9/5/2018 15:17	133.21	4.03	53.5	372.6	560	532	281.26	0 RUNNING	242	224
9/5/2018 15:17	134.46	4.03	53.5	372.5	560	532	284.13	0 RUNNING	242	224
9/5/2018 15:17	135.16	4.02	53.5	372.5	560	534	284.51	0 RUNNING	242	224
9/5/2018 15:17	133.37	4.02	53.5	372.5	560	533	282.09	0 RUNNING	242	224
9/5/2018 15:17	132.26	4.02	53.5	372.5	560	531	280.67	0 RUNNING	242	224
9/5/2018 15:17	132.71	4.03	53.4	372.5	560	529	279.82	0 RUNNING	242	224
9/5/2018 15:17	134.33	4.03	53.6	372.7	560	529	282.5	0 RUNNING	242	224
9/5/2018 15:17	135.12	4.03	53.7	372.8	560	528	286.46	0 RUNNING	242	224
9/5/2018 15:17	133.53	4.04	53.5	372.7	560	527	281.56	0 RUNNING	242	224
9/5/2018 15:17	133.1	4.04	53.6	372.7	560	528	281.17	0 RUNNING	242	224
9/5/2018 15:17	133.3	4.04	53.6	372.8	560	529	282.26	0 RUNNING	242	224
9/5/2018 15:17	135.3	4.04	53.6	372.8	560	530	286.66	0 RUNNING	242	224
9/5/2018 15:17	135.25	4.04	53.6	372.8	560	532	284.66	0 RUNNING	242	224
9/5/2018 15:17	133.13	4.04	53.7	372.9	560	534	280.72	0 RUNNING	242	224
9/5/2018 15:18	132.22	4.04	53.5	372.7	560	533	278.89	0 RUNNING	242	224
9/5/2018 15:18	132.83	4.04	53.6	372.8	560	533	280.06	0 RUNNING	242	224
9/5/2018 15:18	135.45	4.05	53.8	373.1	560	533	284.75	0 RUNNING	242	224
9/5/2018 15:18	135.51	4.04	53.6	372.8	560	530	286.39	0 RUNNING	242	224
9/5/2018 15:18	133.75	4.04	53.8	373	560	529	283.5	0 RUNNING	242	224
9/5/2018 15:18	132.43	4.04	53.6	372.9	560	526	279.78	0 RUNNING	242	224
9/5/2018 15:18	132.95	4.04	53.6	372.7	560	527	281.07	0 RUNNING	242	224
9/5/2018 15:18	135.2	4.04	53.7	372.9	560	528	286.25	0 RUNNING	242	224
9/5/2018 15:18	134.84	4.05	53.7	373	560	530	286.05	0 RUNNING	242	224
9/5/2018 15:18	133.35	4.05	53.7	373	560	530	281.53	0 RUNNING	242	224
9/5/2018 15:18	132.54	4.05	53.8	373	560	533	281.97	0 RUNNING	242	224
9/5/2018 15:18	133.05	4.05	53.7	373	560	533	281.48	0 RUNNING	242	224
9/5/2018 15:18	134.77	4.04	53.6	372.9	560	533	281.63	0 RUNNING	242	224
9/5/2018 15:18	135.59	4.05	53.8	373.1	560	535	286.27	0 RUNNING	242	224
9/5/2018 15:18	135.28	4.05	54	373.3	560	535	286.23	0 RUNNING	242	224
9/5/2018 15:18	134.4	4.05	54.1	373.3	560	533	281.39	0 RUNNING	242	224
9/5/2018 15:18	134.61	4.05	54.2	373.3	560	534	282.26	0 RUNNING	242	224
9/5/2018 15:18	135.1	4.06	54.3	373.5	560	532	284.93	0 RUNNING	242	224
9/5/2018 15:18	135.3	4.06	54.3	373.5	560	531	284.63	0 RUNNING	242	224
9/5/2018 15:18	134.93	4.06	54.3	373.5	560	532	282.35	0 RUNNING	242	224
9/5/2018 15:18	134.97	4.06	54.3	373.5	560	534	282.73	0 RUNNING	242	224
9/5/2018 15:18	134.89	4.06	54.4	373.7	560	536	282.88	0 RUNNING	242	224
9/5/2018 15:18	134.55	4.05	54.3	373.5	560	537	281.36	0 RUNNING	242	224
9/5/2018 15:18	134.55	4.05	54.3	373.5	560	537	280.79	0 RUNNING	242	224
9/5/2018 15:18	134.9	4.05	54.3	373.5	560	537	280.79	0 RUNNING	242	224
9/5/2018 15:18	134.52	4.05	54.3	373.5	560	538	281.46	0 RUNNING	242	224
9/5/2018 15:18	134.58	4.05	54.3	373.5	560	537	283.34	0 RUNNING	242	224
9/5/2018 15:18	133.97	4.06	54.4	373.6	560	536	281	0 RUNNING	242	224
9/5/2018 15:18	135.04	4.05	54.3	373.5	560	535	282.26	0 RUNNING	242	224
9/5/2018 15:18	135.62	4.06	54.4	373.7	560	533	282.71	0 RUNNING	242	224
9/5/2018 15:18	134.53	4.06	54.4	373.7	560	532	282.52	0 RUNNING	242	224
9/5/2018 15:18	134.73	4.06	54.4	373.6	560	532	281.99	0 RUNNING	242	224
9/5/2018 15:18	134.6	4.06	54.3	373.6	560	531	282.42	0 RUNNING	242	224
9/5/2018 15:18	134.48	4.06	54.4	373.7	560	533	283.17	0 RUNNING	242	224
9/5/2018 15:18	135.64	4.07	54.5	373.9	560	535	281.67	0 RUNNING	242	224
9/5/2018 15:18	134.5	4.06	54.2	373.5	560	536	281.53	0 RUNNING	242	224
9/5/2018 15:18	135.08	4.06	54.4	373.6	560	538	283.29	0 RUNNING	242	224
9/5/2018 15:18	134.47	4.06	54.4	373.6	560	538	282.81	0 RUNNING	242	224
9/5/2018 15:18	134.38	4.06	54.3	373.5	560	538	280.72	0 RUNNING	242	224
9/5/2018 15:18	134.99	4.06	54.3	373.5	560	535	283.03	0 RUNNING	242	224
9/5/2018 15:18	134.85	4.06	54.4	373.6	560	535	281.84	0 RUNNING	242	224
9/5/2018 15:18	134.71	4.07	54.5	373.8	560	534	282.73	0 RUNNING	242	224
9/5/2018 15:18	134.86	4.07	54.5	373.8	560	532	284.08	0 RUNNING	242	225
9/5/2018 15:18	134.7	4.06	54.4	373.7	560	531	281.56	0 RUNNING	242	225
9/5/2018 15:18	134.84	4.06	54.4	373.7	560	533	280.16	0 RUNNING	242	225
9/5/2018 15:18	135.09	4.07	54.5	373.9	560	533	284.71	0 RUNNING	242	225
9/5/2018 15:18	135.57	4.07	54.5	373.8	560	534	283.92	0 RUNNING	242	225
9/5/2018 15:18	135.08	4.06	54.5	373.7	560	536	283.75	0 RUNNING	242	225
9/5/2018 15:18	134.83	4.06	54.4	373.7	560	537	281.27	0 RUNNING	242	225
9/5/2018 15:18	134.72	4.06	54.4	373.6	560	538	284.49	0 RUNNING	242	225

9/5/2018 15:18	134.72	4.06	54.4	373.7	560	538	282.81	0 RUNNING	242	225
9/5/2018 15:18	134.33	4.06	54.4	373.6	560	537	281.49	0 RUNNING	242	225
9/5/2018 15:18	135.27	4.06	54.3	373.6	560	534	282.11	0 RUNNING	242	224
9/5/2018 15:18	134.68	4.06	54.3	373.6	560	534	283.09	0 RUNNING	242	224
9/5/2018 15:18	134.53	4.06	54.3	373.6	560	532	283.8	0 RUNNING	242	224
9/5/2018 15:18	134.56	4.06	54.3	373.6	560	532	283.51	0 RUNNING	242	224
9/5/2018 15:18	134.71	4.06	54.4	373.6	560	531	282.09	0 RUNNING	242	224
9/5/2018 15:18	134.72	4.06	54.5	373.7	560	534	280.31	0 RUNNING	242	224
9/5/2018 15:18	134.28	4.07	54.5	373.8	560	533	282.85	0 RUNNING	242	224
9/5/2018 15:19	134.57	4.06	54.4	373.7	560	536	281.8	0 RUNNING	242	224
9/5/2018 15:19	135.15	4.06	54.4	373.6	560	536	281	0 RUNNING	242	224
9/5/2018 15:19	135.07	4.06	54.4	373.6	560	538	284.56	0 RUNNING	242	224
9/5/2018 15:19	134.54	4.06	54.3	373.5	560	537	281.67	0 RUNNING	242	224
9/5/2018 15:19	134.94	4.06	54.4	373.6	560	536	282.5	0 RUNNING	242	224
9/5/2018 15:19	134.64	4.06	54.5	373.7	560	535	282.18	0 RUNNING	242	224
9/5/2018 15:19	134.47	4.06	54.3	373.6	560	533	281.87	0 RUNNING	242	224
9/5/2018 15:19	134.89	4.06	54.4	373.6	560	531	280.54	0 RUNNING	242	224
9/5/2018 15:19	135.2	4.07	54.6	373.9	560	531	282.86	0 RUNNING	242	224
9/5/2018 15:19	134.68	4.07	54.6	373.9	560	531	281	0 RUNNING	242	224
9/5/2018 15:19	135.35	4.07	54.6	373.9	560	532	280.55	0 RUNNING	242	224
9/5/2018 15:19	135.24	4.07	54.7	374	560	534	282.61	0 RUNNING	242	224
9/5/2018 15:19	135.07	4.07	54.6	374	560	535	283.41	0 RUNNING	242	224
9/5/2018 15:19	134.76	4.07	54.6	374	560	537	282.37	0 RUNNING	242	224
9/5/2018 15:19	134.87	4.06	54.5	373.7	560	537	280.43	0 RUNNING	242	224
9/5/2018 15:19	135.18	4.06	54.5	373.8	560	536	280.19	0 RUNNING	242	224
9/5/2018 15:19	134.51	4.06	54.6	373.8	560	537	280.95	0 RUNNING	242	224
9/5/2018 15:19	134.61	4.07	54.6	373.9	560	535	281.41	0 RUNNING	242	224
9/5/2018 15:19	134.64	4.07	54.7	374	560	533	283.41	0 RUNNING	242	224
9/5/2018 15:19	135	4.06	54.6	373.8	560	531	281.08	0 RUNNING	242	224
9/5/2018 15:19	135.24	4.07	54.6	373.9	560	531	282.64	0 RUNNING	242	224
9/5/2018 15:19	134.66	4.06	54.6	373.8	560	531	280.06	0 RUNNING	242	224
9/5/2018 15:19	134.71	4.06	54.6	373.8	560	532	282.01	0 RUNNING	242	224
9/5/2018 15:19	134.96	4.07	54.7	374.1	560	533	282.13	0 RUNNING	242	224
9/5/2018 15:19	134.91	4.07	54.7	374	560	535	280.72	0 RUNNING	242	224
9/5/2018 15:19	134.15	4.07	54.6	373.9	560	536	279.65	0 RUNNING	242	224
9/5/2018 15:19	134.68	4.06	54.5	373.7	560	537	281.8	0 RUNNING	242	224
9/5/2018 15:19	134.91	4.06	54.6	373.8	560	537	281.55	0 RUNNING	242	224
9/5/2018 15:19	134.95	4.06	54.6	373.8	560	537	282.8	0 RUNNING	242	224
9/5/2018 15:19	135.25	4.06	54.5	373.8	560	535	281.99	0 RUNNING	242	224
9/5/2018 15:19	134.57	4.06	54.6	373.8	560	533	279.99	0 RUNNING	242	224
9/5/2018 15:19	134.82	4.07	54.6	373.9	560	531	282.95	0 RUNNING	242	224
9/5/2018 15:19	134.72	4.07	54.6	373.9	560	531	280.16	0 RUNNING	242	224
9/5/2018 15:19	135.02	4.07	54.7	373.9	560	531	280.71	0 RUNNING	242	224
9/5/2018 15:19	134.45	4.07	54.6	373.9	560	530	281.34	0 RUNNING	242	224
9/5/2018 15:19	134.4	4.07	54.7	374	560	532	282.33	0 RUNNING	242	224
9/5/2018 15:19	135.02	4.07	54.7	374	560	534	281.39	0 RUNNING	242	224
9/5/2018 15:19	134.51	4.07	54.6	373.8	560	534	278.19	0 RUNNING	242	224
9/5/2018 15:19	135.47	4.06	54.7	373.9	560	537	281.17	0 RUNNING	242	224
9/5/2018 15:19	134.26	4.06	54.6	373.8	560	535	282.69	0 RUNNING	242	224
9/5/2018 15:19	134.58	4.06	54.6	373.7	560	535	279.54	0 RUNNING	242	224
9/5/2018 15:19	134.53	4.06	54.6	373.8	560	534	280.81	0 RUNNING	242	224
9/5/2018 15:19	135.22	4.06	54.6	373.8	560	533	283.46	0 RUNNING	242	224
9/5/2018 15:19	134.64	4.06	54.6	373.8	560	532	280.42	0 RUNNING	242	225
9/5/2018 15:19	134.88	4.07	54.7	373.9	560	531	281.34	0 RUNNING	242	225
9/5/2018 15:19	134.77	4.06	54.6	373.8	560	530	280.71	0 RUNNING	242	225
9/5/2018 15:19	134.74	4.06	54.6	373.8	560	530	282.11	0 RUNNING	242	225
9/5/2018 15:19	134.22	4.07	54.5	373.8	560	531	278.84	0 RUNNING	242	225
9/5/2018 15:19	135.36	4.07	54.7	374	560	533	281.14	0 RUNNING	242	225
9/5/2018 15:19	135.37	4.07	54.7	374	560	535	283	0 RUNNING	242	225
9/5/2018 15:19	134.64	4.08	54.8	374.2	560	536	280.59	0 RUNNING	242	225
9/5/2018 15:19	134.68	4.07	54.7	374	560	537	279.58	0 RUNNING	242	225
9/5/2018 15:19	134.46	4.07	54.7	374	560	537	281.97	0 RUNNING	242	225
9/5/2018 15:19	134.17	4.08	54.8	374.1	560	534	279.17	0 RUNNING	242	224
9/5/2018 15:19	134.68	4.07	54.7	374	560	534	281.55	0 RUNNING	242	224
9/5/2018 15:19	134.72	4.07	54.7	374	560	531	280.4	0 RUNNING	242	224

9/5/2018 15:19	134.97	4.06	54.6	373.8	560	531	279.44	0 RUNNING	242	224
9/5/2018 15:19	134.67	4.07	54.8	374	560	530	279.73	0 RUNNING	242	224
9/5/2018 15:19	134.5	4.07	54.7	374	560	531	280.52	0 RUNNING	242	224
9/5/2018 15:20	134.83	4.07	54.8	374.1	560	532	281.27	0 RUNNING	242	224
9/5/2018 15:20	134.44	4.08	54.8	374.1	560	532	278.84	0 RUNNING	242	224
9/5/2018 15:20	134.99	4.07	54.7	373.9	560	534	281.67	0 RUNNING	242	224
9/5/2018 15:20	134.24	4.06	54.6	373.8	560	534	281.26	0 RUNNING	242	224
9/5/2018 15:20	134.46	4.07	54.7	374	560	536	280.19	0 RUNNING	242	224
9/5/2018 15:20	134.97	4.06	54.6	373.8	560	535	280.5	0 RUNNING	242	224
9/5/2018 15:20	134.78	4.07	54.7	373.9	560	535	281.56	0 RUNNING	242	224
9/5/2018 15:20	134.75	4.07	54.7	374	560	533	280.71	0 RUNNING	242	224
9/5/2018 15:20	135.11	4.06	54.7	373.9	560	531	278.83	0 RUNNING	242	224
9/5/2018 15:20	134.8	4.07	54.8	374.1	560	531	281	0 RUNNING	242	224
9/5/2018 15:20	134.39	4.07	54.7	374	560	529	277.76	0 RUNNING	242	224
9/5/2018 15:20	134.95	4.08	54.8	374.1	560	529	278.74	0 RUNNING	242	224
9/5/2018 15:20	135.02	4.07	54.8	374.1	560	530	279.63	0 RUNNING	242	224
9/5/2018 15:20	135.02	4.07	54.8	374.1	560	532	279.84	0 RUNNING	242	224
9/5/2018 15:20	134.35	4.08	54.9	374.2	560	533	278.14	0 RUNNING	242	224
9/5/2018 15:20	135.23	4.08	54.9	374.2	560	535	281.05	0 RUNNING	242	224
9/5/2018 15:20	135.03	4.07	54.7	373.9	560	536	280.83	0 RUNNING	242	224
9/5/2018 15:20	134.53	4.07	54.8	374	560	536	279.68	0 RUNNING	242	224
9/5/2018 15:20	135.05	4.07	54.8	374.1	560	535	279.27	0 RUNNING	242	224
9/5/2018 15:20	134.4	4.07	54.7	374	560	533	278.88	0 RUNNING	242	224
9/5/2018 15:20	135.19	4.07	54.7	373.9	560	530	281	0 RUNNING	242	224
9/5/2018 15:20	135.08	4.06	54.6	373.8	560	530	280.21	0 RUNNING	242	224
9/5/2018 15:20	134.94	4.06	54.6	373.8	560	528	279.89	0 RUNNING	242	224
9/5/2018 15:20	134.86	4.07	54.8	374.1	560	529	282.26	0 RUNNING	242	224
9/5/2018 15:20	134.73	4.07	54.7	374	560	530	277.99	0 RUNNING	242	224
9/5/2018 15:20	134.56	4.08	54.8	374.2	560	530	277.22	0 RUNNING	242	224
9/5/2018 15:20	134.66	4.06	54.7	373.9	560	533	279.73	0 RUNNING	242	224
9/5/2018 15:20	135.06	4.07	54.7	374	560	534	280.04	0 RUNNING	242	224
9/5/2018 15:20	135.02	4.06	54.6	373.8	560	535	280.01	0 RUNNING	242	224
9/5/2018 15:20	134.01	4.06	54.5	373.7	560	534	277.49	0 RUNNING	242	224
9/5/2018 15:20	134.55	4.06	54.6	373.8	560	533	280.93	0 RUNNING	242	224
9/5/2018 15:20	134.63	4.06	54.6	373.8	560	533	280.26	0 RUNNING	242	224
9/5/2018 15:20	134.31	4.07	54.7	374	560	530	278.04	0 RUNNING	242	224
9/5/2018 15:20	135.2	4.07	54.7	374	560	529	278.26	0 RUNNING	242	224
9/5/2018 15:20	134.53	4.07	54.8	374.1	560	527	279.92	0 RUNNING	242	224
9/5/2018 15:20	134.07	4.07	54.7	373.9	560	527	277.68	0 RUNNING	242	224
9/5/2018 15:20	135.29	4.07	54.8	374.1	560	529	279.18	0 RUNNING	242	224
9/5/2018 15:20	135.34	4.07	54.9	374.2	560	530	280.98	0 RUNNING	242	224
9/5/2018 15:20	134.38	4.07	54.7	374.1	560	531	277.63	0 RUNNING	242	224
9/5/2018 15:20	135.34	4.07	54.7	374	560	533	280.16	0 RUNNING	242	224
9/5/2018 15:20	135.05	4.07	54.8	374.2	560	534	278.89	0 RUNNING	242	224
9/5/2018 15:20	134.82	4.07	54.7	374	560	534	276.58	0 RUNNING	242	224
9/5/2018 15:20	134.57	4.07	54.7	374	560	534	279.56	0 RUNNING	242	224
9/5/2018 15:20	134.29	4.06	54.6	373.9	560	531	279.29	0 RUNNING	242	224
9/5/2018 15:20	134.96	4.06	54.5	373.7	560	529	276.74	0 RUNNING	242	224
9/5/2018 15:20	134.6	4.06	54.7	374	560	529	278.96	0 RUNNING	242	224
9/5/2018 15:20	134.29	4.06	54.7	373.9	560	526	278.81	0 RUNNING	242	224
9/5/2018 15:20	134.96	4.06	54.7	373.9	560	527	278.14	0 RUNNING	242	224
9/5/2018 15:20	134.66	4.06	54.7	373.9	560	527	280.19	0 RUNNING	242	224
9/5/2018 15:20	134.27	4.06	54.7	373.9	560	528	278.79	0 RUNNING	242	224
9/5/2018 15:20	134.72	4.07	54.9	374.1	560	531	280.93	0 RUNNING	242	224
9/5/2018 15:20	134.8	4.06	54.6	373.8	560	530	278.19	0 RUNNING	242	224
9/5/2018 15:20	135.5	4.06	54.7	373.9	560	531	279.73	0 RUNNING	242	224
9/5/2018 15:20	134.58	4.05	54.6	373.7	560	533	279.41	0 RUNNING	242	224
9/5/2018 15:20	134.4	4.06	54.7	373.8	560	531	279.01	0 RUNNING	242	224
9/5/2018 15:20	134.59	4.06	54.6	373.8	560	530	279.37	0 RUNNING	242	224
9/5/2018 15:20	134.54	4.06	54.6	373.8	560	529	277.34	0 RUNNING	242	224
9/5/2018 15:20	134.08	4.07	54.7	374	560	527	276.62	0 RUNNING	242	224
9/5/2018 15:20	135.15	4.06	54.6	373.8	560	526	279.66	0 RUNNING	242	224
9/5/2018 15:20	134.65	4.06	54.7	373.9	560	525	278.86	0 RUNNING	242	224
9/5/2018 15:21	134.49	4.07	54.8	374	560	527	277.58	0 RUNNING	242	224
9/5/2018 15:21	135.34	4.06	54.7	373.9	560	525	279.24	0 RUNNING	242	224

9/5/2018 15:21	134.14	4.06	54.6	373.8	560	529	276.87	0 RUNNING	242	224
9/5/2018 15:21	134.91	4.06	54.7	373.8	560	530	278.88	0 RUNNING	242	224
9/5/2018 15:21	135.29	4.06	54.7	373.9	560	530	279.9	0 RUNNING	242	224
9/5/2018 15:21	134.64	4.07	54.7	374	560	532	279	0 RUNNING	242	224
9/5/2018 15:21	134.5	4.07	54.8	374.1	560	530	277.66	0 RUNNING	242	224
9/5/2018 15:21	134.89	4.07	54.9	374.1	560	530	277.47	0 RUNNING	242	224
9/5/2018 15:21	134.12	4.06	54.8	374	560	527	278.43	0 RUNNING	242	224
9/5/2018 15:21	134.62	4.06	54.6	373.8	560	524	277.97	0 RUNNING	242	224
9/5/2018 15:21	134.99	4.06	54.7	373.9	560	526	279.3	0 RUNNING	242	224
9/5/2018 15:21	134.31	4.06	54.7	373.9	560	523	277.06	0 RUNNING	242	224
9/5/2018 15:21	135.44	4.05	54.6	373.6	560	524	281.2	0 RUNNING	242	224
9/5/2018 15:21	135.23	4.05	54.4	373.5	560	524	278.64	0 RUNNING	242	224
9/5/2018 15:21	134.34	4.06	54.6	373.8	560	525	279.22	0 RUNNING	242	224
9/5/2018 15:21	134.29	4.05	54.6	373.7	560	526	279.61	0 RUNNING	242	224
9/5/2018 15:21	134.3	4.05	54.6	373.7	560	527	277.8	0 RUNNING	242	224
9/5/2018 15:21	134.3	4.05	54.6	373.7	560	531	278.43	0 RUNNING	242	224
9/5/2018 15:21	135.2	4.04	54.5	373.5	560	531	278.43	0 RUNNING	242	224
9/5/2018 15:21	134.65	4.06	54.6	373.8	560	529	276.87	0 RUNNING	242	224
9/5/2018 15:21	135.07	4.05	54.7	373.8	560	528	280.06	0 RUNNING	242	224
9/5/2018 15:21	134.24	4.05	54.6	373.6	560	523	276.93	0 RUNNING	242	224
9/5/2018 15:21	134.68	4.05	54.5	373.5	560	523	279.17	0 RUNNING	242	224
9/5/2018 15:21	134.87	4.06	54.6	373.7	560	520	278.84	0 RUNNING	242	224
9/5/2018 15:21	135.09	4.05	54.6	373.7	560	521	278.53	0 RUNNING	242	224
9/5/2018 15:21	134.77	4.05	54.6	373.7	560	520	277.73	0 RUNNING	242	224
9/5/2018 15:21	135.19	4.05	54.6	373.7	560	521	279.8	0 RUNNING	242	224
9/5/2018 15:21	135.31	4.05	54.5	373.6	560	521	278.77	0 RUNNING	242	224
9/5/2018 15:21	134.68	4.05	54.6	373.7	560	523	278.76	0 RUNNING	242	224
9/5/2018 15:21	134.75	4.05	54.6	373.7	560	523	277.92	0 RUNNING	242	224
9/5/2018 15:21	135.01	4.04	54.6	373.6	560	525	278.09	0 RUNNING	242	224
9/5/2018 15:21	134.36	4.05	54.5	373.5	560	523	275.85	0 RUNNING	242	224
9/5/2018 15:21	135.02	4.05	54.6	373.7	560	523	280.25	0 RUNNING	242	224
9/5/2018 15:21	135.12	4.04	54.5	373.5	560	520	280.67	0 RUNNING	242	224
9/5/2018 15:21	134.85	4.05	54.5	373.6	560	517	279.65	0 RUNNING	242	224
9/5/2018 15:21	134.81	4.05	54.6	373.6	560	516	279.13	0 RUNNING	242	224
9/5/2018 15:21	134.36	4.05	54.5	371.9	560	513	278.09	0 RUNNING	242	224
9/5/2018 15:21	134.74	4.04	54.5	371.8	560	512	278.93	0 RUNNING	242	224
9/5/2018 15:21	135.14	4.05	54.6	371.9	560	513	278.24	0 RUNNING	242	224
9/5/2018 15:21	134.73	4.05	54.6	372	560	511	278.81	0 RUNNING	242	224
9/5/2018 15:21	134.89	4.05	54.6	371.9	560	512	277.29	0 RUNNING	242	224
9/5/2018 15:21	134.39	4.05	54.6	371.9	560	512	276.46	0 RUNNING	242	224
9/5/2018 15:21	135.25	4.05	54.5	371.8	560	511	278.62	0 RUNNING	242	224
9/5/2018 15:21	135.36	4.04	54.4	371.7	560	510	277.54	0 RUNNING	242	224
9/5/2018 15:21	134.55	4.04	54.5	371.7	560	507	277.73	0 RUNNING	242	224
9/5/2018 15:21	134.65	4.04	54.5	371.7	560	504	276.84	0 RUNNING	242	224
9/5/2018 15:21	134.68	4.05	54.6	371.8	560	501	279.03	0 RUNNING	242	224
9/5/2018 15:21	134.69	4.05	54.5	371.8	560	497	277.73	0 RUNNING	242	224
9/5/2018 15:21	135.37	4.04	54.5	371.7	560	495	277.7	0 RUNNING	242	224
9/5/2018 15:21	134.41	4.04	54.5	371.7	560	494	278.07	0 RUNNING	242	224
9/5/2018 15:21	134.92	4.04	54.5	371.8	560	493	278.89	0 RUNNING	242	224
9/5/2018 15:21	134.69	4.05	54.6	371.8	560	492	278.26	0 RUNNING	242	224
9/5/2018 15:21	134.18	4.04	54.3	371.5	560	493	277.13	0 RUNNING	242	224
9/5/2018 15:21	134.98	4.04	54.4	371.6	560	494	276.26	0 RUNNING	242	224
9/5/2018 15:21	134.59	4.04	54.5	371.7	560	492	280.33	0 RUNNING	242	224
9/5/2018 15:21	134.25	4.04	54.3	371.5	560	491	275.69	0 RUNNING	242	224
9/5/2018 15:21	134.95	4.04	54.5	371.7	560	491	280.93	0 RUNNING	242	224
9/5/2018 15:21	134.38	4.04	54.4	371.7	560	487	277.44	0 RUNNING	242	224
9/5/2018 15:21	134.6	4.03	54.3	371.4	560	488	275.73	0 RUNNING	242	224
9/5/2018 15:22	134.64	4.03	54.3	371.5	560	485	278.19	0 RUNNING	242	224
9/5/2018 15:22	135.14	4.03	54.4	371.6	560	484	278.04	0 RUNNING	242	224
9/5/2018 15:22	134.64	4.03	54.4	371.5	560	483	278.31	0 RUNNING	242	224
9/5/2018 15:22	135.39	4.04	54.4	371.7	560	483	278.48	0 RUNNING	242	224
9/5/2018 15:22	134.16	4.04	54.4	371.6	560	485	276.45	0 RUNNING	242	224
9/5/2018 15:22	134.81	4.04	54.4	371.7	560	486	276.91	0 RUNNING	242	224
9/5/2018 15:22	134.59	4.04	54.4	371.6	560	486	274.58	0 RUNNING	242	224
9/5/2018 15:22	135	4.03	54.4	371.6	560	485	279.05	0 RUNNING	242	224

9/5/2018 15:22	134.9	4.03	54.3	371.5	560	484	279.73	0 RUNNING	242	224
9/5/2018 15:22	134.68	4.03	54.3	371.5	560	484	277.34	0 RUNNING	242	224
9/5/2018 15:22	134.9	4.03	54.3	371.4	560	482	277.34	0 RUNNING	242	224
9/5/2018 15:22	134.45	4.03	54.3	371.4	560	480	276.14	0 RUNNING	242	224
9/5/2018 15:22	134.85	4.04	54.4	371.6	560	477	278.77	0 RUNNING	242	224
9/5/2018 15:22	134.75	4.03	54.2	371.4	560	476	276.81	0 RUNNING	242	224
9/5/2018 15:22	134.32	4.03	54.3	371.5	560	475	279.63	0 RUNNING	242	224
9/5/2018 15:22	134.23	4.03	54.2	371.4	560	473	278.71	0 RUNNING	242	224
9/5/2018 15:22	135.37	4.03	54.3	371.4	560	476	276.07	0 RUNNING	242	224
9/5/2018 15:22	135.1	4.03	54.3	371.5	560	477	279.3	0 RUNNING	242	224
9/5/2018 15:22	134.64	4.03	54.4	371.6	560	477	278.53	0 RUNNING	242	224
9/5/2018 15:22	134.73	4.03	54.3	371.4	560	478	278	0 RUNNING	242	224
9/5/2018 15:22	134.36	4.02	54.2	371.3	560	480	277.58	0 RUNNING	242	224
9/5/2018 15:22	134.83	4.02	54	371.1	560	481	274	0 RUNNING	242	224
9/5/2018 15:22	134.43	4.02	54.2	371.2	560	480	278.84	0 RUNNING	242	224
9/5/2018 15:22	134.95	4.02	54.1	371.1	560	484	280.06	0 RUNNING	242	224
9/5/2018 15:22	134.62	4.02	54.2	371.3	560	492	276.82	0 RUNNING	242	224
9/5/2018 15:22	134.25	4.02	54.2	371.3	560	498	277.32	0 RUNNING	242	224
9/5/2018 15:22	135.05	4.02	54.2	371.3	560	501	279.3	0 RUNNING	242	224
9/5/2018 15:22	134.32	4.02	54.1	371.2	560	506	274.79	0 RUNNING	242	224
9/5/2018 15:22	134.55	4.02	54.2	371.3	560	509	278.07	0 RUNNING	242	224
9/5/2018 15:22	134.34	4.02	54.1	371.2	560	513	276.62	0 RUNNING	242	224
9/5/2018 15:22	135.22	4.02	54.1	371.1	560	516	277.06	0 RUNNING	242	224
9/5/2018 15:22	134.57	4.01	54.1	371.1	560	520	278.23	0 RUNNING	242	224
9/5/2018 15:22	135.11	4.01	54	371	560	520	277.1	0 RUNNING	242	224
9/5/2018 15:22	133.91	4.02	54.1	371.2	560	522	276.74	0 RUNNING	242	224
9/5/2018 15:22	135.59	4.01	54	371.1	560	520	279.7	0 RUNNING	242	224
9/5/2018 15:22	134.56	4.02	54.2	371.2	560	519	276.99	0 RUNNING	242	224
9/5/2018 15:22	134.58	4.03	54.3	371.4	560	519	279.24	0 RUNNING	242	224
9/5/2018 15:22	135	4.01	54	371	560	516	279.56	0 RUNNING	242	224
9/5/2018 15:22	134.62	4.01	54	371.1	560	515	277.88	0 RUNNING	242	224
9/5/2018 15:22	134.4	4.01	54	371.1	560	516	277.08	0 RUNNING	242	224
9/5/2018 15:22	134.61	4.01	53.9	370.9	560	516	276.72	0 RUNNING	242	224
9/5/2018 15:22	134.8	4.02	54.2	371.2	560	519	280.35	0 RUNNING	242	224
9/5/2018 15:22	134.24	4.02	54	371.1	560	520	275.28	0 RUNNING	242	224
9/5/2018 15:22	134.45	4.01	54.1	371.1	560	522	276.96	0 RUNNING	242	224
9/5/2018 15:22	134.63	4.01	54	370.9	560	522	277.83	0 RUNNING	242	224
9/5/2018 15:22	134.57	4	53.9	370.8	560	522	277.1	0 RUNNING	242	224
9/5/2018 15:22	134.95	4.01	54.1	371.1	560	522	277.56	0 RUNNING	242	224
9/5/2018 15:22	134.42	4.01	54.1	371.1	560	520	277.94	0 RUNNING	242	224
9/5/2018 15:22	135.02	4.01	53.9	371	560	517	276.84	0 RUNNING	242	224
9/5/2018 15:22	134.35	4.01	54.1	371.1	560	516	277.75	0 RUNNING	242	224
9/5/2018 15:22	134.18	4.01	54	371	560	515	275.57	0 RUNNING	242	224
9/5/2018 15:22	134.88	4.02	54.2	371.2	560	515	277.85	0 RUNNING	242	224
9/5/2018 15:22	134.48	4.01	54.1	371.1	560	515	278.81	0 RUNNING	242	224
9/5/2018 15:22	134.84	4.02	54.1	371.2	560	517	275.98	0 RUNNING	242	224
9/5/2018 15:22	134.81	4.01	54.1	371.1	560	518	279.53	0 RUNNING	242	224
9/5/2018 15:22	135	4.01	53.9	370.9	560	517	278.31	0 RUNNING	242	224
9/5/2018 15:22	134.85	4.01	54	371	560	518	276.99	0 RUNNING	242	224
9/5/2018 15:22	134.92	4.01	54.1	371.1	560	517	280.78	0 RUNNING	242	224
9/5/2018 15:22	134.62	4.02	54.2	371.2	560	516	277.17	0 RUNNING	242	224
9/5/2018 15:23	134.26	4.03	54.3	371.4	560	514	276.38	0 RUNNING	242	224
9/5/2018 15:23	134.23	4.02	54.2	371.2	560	511	278.62	0 RUNNING	242	224
9/5/2018 15:23	135.79	4.01	54	371	560	510	278.77	0 RUNNING	242	224
9/5/2018 15:23	134.96	4.01	53.9	370.9	560	508	278.4	0 RUNNING	242	224
9/5/2018 15:23	134.46	4.01	54	371	560	508	276.43	0 RUNNING	242	224
9/5/2018 15:23	134.71	4.01	54.1	371.1	560	509	277.63	0 RUNNING	242	224
9/5/2018 15:23	134.79	4.01	54.2	371.2	560	509	279.56	0 RUNNING	242	224
9/5/2018 15:23	134.76	4.01	54.1	371.1	560	512	278.23	0 RUNNING	242	224
9/5/2018 15:23	134.85	4.02	54.3	371.3	560	514	278.64	0 RUNNING	242	224
9/5/2018 15:23	134.46	4.02	54.1	371.2	560	514	278.79	0 RUNNING	242	224
9/5/2018 15:23	134.33	4.02	54.2	371.3	560	515	278	0 RUNNING	242	224
9/5/2018 15:23	134.91	4.02	54.1	371.2	560	515	276.67	0 RUNNING	242	224
9/5/2018 15:23	134.65	4.03	54.4	371.5	560	514	278.6	0 RUNNING	242	224
9/5/2018 15:23	134.58	4.02	54.2	371.2	560	512	277.63	0 RUNNING	242	224

9/5/2018 15:23	134.46	4.02	54.2	371.3	560	511	279.8	0 RUNNING	242	224
9/5/2018 15:23	134.23	4.02	54.1	371.2	560	509	277.71	0 RUNNING	242	224
9/5/2018 15:23	135.14	4.02	54.2	371.3	560	509	280.18	0 RUNNING	242	224
9/5/2018 15:23	135.17	4.02	54.2	371.3	560	510	277.53	0 RUNNING	242	224
9/5/2018 15:23	135.52	4.02	54.3	371.3	560	512	277.87	0 RUNNING	242	224
9/5/2018 15:23	135.12	4.02	54.2	371.3	560	512	279.82	0 RUNNING	242	224
9/5/2018 15:23	134.35	4.02	54.2	371.2	560	513	276.09	0 RUNNING	242	224
9/5/2018 15:23	134.87	4.02	54.2	371.2	560	515	280.79	0 RUNNING	242	224
9/5/2018 15:23	134.28	4.02	54.1	371.2	560	514	276.55	0 RUNNING	242	224
9/5/2018 15:23	134.22	4.01	54.1	371.1	560	513	278.52	0 RUNNING	242	224
9/5/2018 15:23	134.34	4.02	54.1	371.2	560	512	276.41	0 RUNNING	242	224
9/5/2018 15:23	135.25	4.01	54.1	371.1	560	509	278.38	0 RUNNING	242	224
9/5/2018 15:23	135.15	4.01	54	371	560	508	279.85	0 RUNNING	242	224
9/5/2018 15:23	133.91	4.01	53.9	370.9	560	506	275.71	0 RUNNING	242	224
9/5/2018 15:23	135.27	4.01	54	371	560	506	279.24	0 RUNNING	242	224
9/5/2018 15:23	134.71	4.01	54	371	560	506	277.59	0 RUNNING	242	224
9/5/2018 15:23	134.97	4.01	54.1	371	560	507	279.36	0 RUNNING	242	224
9/5/2018 15:23	134.99	4.01	54	371	560	507	279.46	0 RUNNING	242	224
9/5/2018 15:23	134.74	4.01	54	371	560	509	278.4	0 RUNNING	242	224
9/5/2018 15:23	134.85	4.01	54	370.9	560	509	277.46	0 RUNNING	242	224
9/5/2018 15:23	135.13	4.01	54.1	371	560	508	280.78	0 RUNNING	242	224
9/5/2018 15:23	134.16	4.01	54	371	560	508	276.09	0 RUNNING	242	224
9/5/2018 15:23	135.28	4.01	54.1	371.1	560	507	280.88	0 RUNNING	242	224
9/5/2018 15:23	134.89	4.01	53.9	370.9	560	504	278.62	0 RUNNING	242	224
9/5/2018 15:23	134.18	4.01	53.9	370.9	560	503	274.92	0 RUNNING	242	224
9/5/2018 15:23	134.84	4.02	54.1	371.1	560	500	278.91	0 RUNNING	242	224
9/5/2018 15:23	134.63	4.01	54	371	560	499	278.24	0 RUNNING	242	224
9/5/2018 15:23	134.48	4.01	54.1	371	560	499	277.8	0 RUNNING	242	224
9/5/2018 15:23	135.16	4	53.9	370.8	560	499	279.48	0 RUNNING	242	224
9/5/2018 15:23	134.79	4.01	54	371	560	501	277.25	0 RUNNING	242	224
9/5/2018 15:23	134.65	4.02	54.2	371.2	560	504	280.26	0 RUNNING	242	224
9/5/2018 15:23	134.82	4.01	54	371	560	512	280.18	0 RUNNING	242	224
9/5/2018 15:23	134.25	4	53.9	370.8	560	516	278.71	0 RUNNING	242	224
9/5/2018 15:23	135.29	4.01	54	371	560	521	278.14	0 RUNNING	242	224
9/5/2018 15:23	134.32	4.01	54.1	371.1	560	520	277.66	0 RUNNING	242	224
9/5/2018 15:23	134.92	4	53.9	370.8	560	521	277.94	0 RUNNING	242	224
9/5/2018 15:23	134.66	4.01	54	371	560	521	278.07	0 RUNNING	242	224
9/5/2018 15:23	134.72	4	53.9	370.9	560	519	277.08	0 RUNNING	242	224
9/5/2018 15:23	135.07	4.01	54	371	560	518	279.18	0 RUNNING	242	224
9/5/2018 15:23	135.87	4.01	54.1	371.1	560	521	278.26	0 RUNNING	242	224
9/5/2018 15:23	134.87	4.02	54.1	371.2	560	521	278.53	0 RUNNING	242	224
9/5/2018 15:23	135.49	4.01	54.1	371.1	560	524	277.1	0 RUNNING	242	224
9/5/2018 15:23	134.74	4.02	54.1	371.2	560	526	277.95	0 RUNNING	242	224
9/5/2018 15:23	135.27	4.01	54.1	371.1	560	527	278.88	0 RUNNING	242	224
9/5/2018 15:23	134.66	4.02	54.1	371.2	560	529	278.04	0 RUNNING	242	224
9/5/2018 15:24	135.15	4.01	54	370.9	560	529	277.64	0 RUNNING	242	224
9/5/2018 15:24	134.45	4.01	54	371	560	529	277.39	0 RUNNING	242	224
9/5/2018 15:24	135.21	4.01	54	370.9	560	527	279.7	0 RUNNING	242	224
9/5/2018 15:24	134.69	4.01	54	371	560	525	278.14	0 RUNNING	242	224
9/5/2018 15:24	134.8	4.02	54.2	371.2	560	525	278.53	0 RUNNING	242	224
9/5/2018 15:24	134.9	4.02	54.1	371.2	560	521	277.23	0 RUNNING	242	224
9/5/2018 15:24	134.64	4.02	54.3	371.3	560	525	278.69	0 RUNNING	242	224
9/5/2018 15:24	134.78	4.01	53.9	371	560	523	278.14	0 RUNNING	242	224
9/5/2018 15:24	134.37	4.02	54.2	371.2	560	525	278.06	0 RUNNING	242	224
9/5/2018 15:24	135.17	4.02	54.2	371.3	560	529	279.2	0 RUNNING	242	224
9/5/2018 15:24	134.72	4.02	54.2	371.3	560	531	279.2	0 RUNNING	242	224
9/5/2018 15:24	134.72	4.02	54.2	371.3	560	530	277.76	0 RUNNING	242	224
9/5/2018 15:24	134.97	4.02	54.1	371.2	560	531	276.96	0 RUNNING	242	224
9/5/2018 15:24	134.5	4.02	54.1	371.2	560	531	276.96	0 RUNNING	242	224
9/5/2018 15:24	134.83	4.02	54.2	371.3	560	531	278	0 RUNNING	242	224
9/5/2018 15:24	134.29	4.02	54.1	371.2	560	528	278.91	0 RUNNING	242	224
9/5/2018 15:24	135.01	4.02	54.1	371.2	560	525	279.6	0 RUNNING	242	224
9/5/2018 15:24	135.53	4.03	54.3	371.4	560	525	280.26	0 RUNNING	242	224
9/5/2018 15:24	134.41	4.02	54.1	371.1	560	523	275.92	0 RUNNING	242	224
9/5/2018 15:24	134.73	4.02	54.2	371.3	560	524	276.12	0 RUNNING	242	224

9/5/2018 15:24	135.06	4.02	54.2	371.3	560	525	279.84	0 RUNNING	242	224
9/5/2018 15:24	134.99	4.02	54.1	371.2	560	525	278.02	0 RUNNING	242	224
9/5/2018 15:24	134.94	4.02	54.2	371.3	560	528	277.18	0 RUNNING	242	224
9/5/2018 15:24	134.49	4.02	54.2	371.3	560	529	277.13	0 RUNNING	242	224
9/5/2018 15:24	135.56	4.03	54.2	371.4	560	530	278.6	0 RUNNING	242	224
9/5/2018 15:24	134.5	4.02	54.2	371.3	560	531	278.69	0 RUNNING	242	224
9/5/2018 15:24	134.64	4.02	54.2	371.3	560	530	277.71	0 RUNNING	242	224
9/5/2018 15:24	134.88	4.02	54.2	371.3	560	529	277.1	0 RUNNING	242	224
9/5/2018 15:24	135	4.02	54.2	371.3	560	527	280.91	0 RUNNING	242	224
9/5/2018 15:24	134.31	4.02	54.1	371.2	560	525	278.53	0 RUNNING	242	224
9/5/2018 15:24	134.37	4.03	54.3	371.5	560	525	278.38	0 RUNNING	242	224
9/5/2018 15:24	135.1	4.03	54.2	371.3	560	524	278.3	0 RUNNING	242	224
9/5/2018 15:24	134.84	4.02	54.2	371.3	560	524	275.49	0 RUNNING	242	224
9/5/2018 15:24	134.53	4.03	54.3	371.5	560	525	277.2	0 RUNNING	242	224
9/5/2018 15:24	134.76	4.03	54.3	371.4	560	527	279.05	0 RUNNING	242	224
9/5/2018 15:24	134.54	4.03	54.3	371.5	560	528	278.71	0 RUNNING	242	224
9/5/2018 15:24	135.36	4.03	54.3	371.4	560	530	278.04	0 RUNNING	242	224
9/5/2018 15:24	134.28	4.04	54.4	371.6	560	529	278.83	0 RUNNING	242	224
9/5/2018 15:24	135.24	4.03	54.3	371.5	560	529	278.74	0 RUNNING	242	224
9/5/2018 15:24	134.91	4.03	54.4	371.6	560	528	279.82	0 RUNNING	242	224
9/5/2018 15:24	134.72	4.03	54.3	371.5	560	526	279.85	0 RUNNING	242	224
9/5/2018 15:24	134.57	4.02	54.2	371.3	560	524	277.71	0 RUNNING	242	224
9/5/2018 15:24	134.64	4.04	54.5	371.7	560	525	278.4	0 RUNNING	242	224
9/5/2018 15:24	134.08	4.03	54.2	371.4	560	521	276.96	0 RUNNING	242	224
9/5/2018 15:24	135.1	4.04	54.4	371.6	560	524	279.75	0 RUNNING	242	224
9/5/2018 15:24	134.42	4.03	54.3	371.5	560	524	275.71	0 RUNNING	242	224
9/5/2018 15:24	134.92	4.03	54.2	371.4	560	525	279.42	0 RUNNING	242	224
9/5/2018 15:24	134.95	4.03	54.3	371.5	560	526	280.38	0 RUNNING	242	224
9/5/2018 15:24	134.65	4.03	54.3	371.4	560	528	277.44	0 RUNNING	242	224
9/5/2018 15:24	134.38	4.03	54.3	371.4	560	528	278.43	0 RUNNING	242	224
9/5/2018 15:24	134.4	4.03	54.3	371.4	560	528	280.16	0 RUNNING	242	224
9/5/2018 15:24	135.08	4.03	54.3	371.4	560	526	276.89	0 RUNNING	242	224
9/5/2018 15:24	134.47	4.03	54.4	371.5	560	525	278.18	0 RUNNING	242	224
9/5/2018 15:24	134.74	4.03	54.3	371.5	560	522	279.3	0 RUNNING	242	224
9/5/2018 15:24	134.62	4.03	54.3	371.5	560	522	278.07	0 RUNNING	242	224
9/5/2018 15:24	135.29	4.03	54.4	371.6	560	521	278.67	0 RUNNING	242	224
9/5/2018 15:24	134.67	4.04	54.5	371.7	560	521	278.59	0 RUNNING	242	224
9/5/2018 15:24	134.92	4.03	54.3	371.5	560	522	279.82	0 RUNNING	242	224
9/5/2018 15:24	134.59	4.03	54.3	371.5	560	523	276.41	0 RUNNING	242	224
9/5/2018 15:25	135.23	4.03	54.3	371.5	560	525	278.23	0 RUNNING	242	224
9/5/2018 15:25	134.95	4.04	54.4	371.7	560	525	278.88	0 RUNNING	242	224
9/5/2018 15:25	134.3	4.04	54.3	371.6	560	523	277.61	0 RUNNING	242	224
9/5/2018 15:25	135	4.04	54.4	371.6	560	523	277.8	0 RUNNING	242	224
9/5/2018 15:25	134.76	4.04	54.4	371.7	560	523	278.67	0 RUNNING	242	224
9/5/2018 15:25	134.35	4.04	54.5	371.8	560	522	280.78	0 RUNNING	242	224
9/5/2018 15:25	134.72	4.03	54.3	371.5	560	519	278.65	0 RUNNING	242	224
9/5/2018 15:25	134.96	4.04	54.3	371.5	560	516	276.38	0 RUNNING	242	224
9/5/2018 15:25	134.96	4.03	54.4	371.5	560	516	281.07	0 RUNNING	242	224
9/5/2018 15:25	135.3	4.03	54.3	371.5	560	514	279.07	0 RUNNING	242	224
9/5/2018 15:25	134.68	4.03	54.3	371.5	560	515	277.1	0 RUNNING	242	224
9/5/2018 15:25	134.83	4.03	54.4	371.6	560	517	279.2	0 RUNNING	242	224
9/5/2018 15:25	135.2	4.04	54.5	371.7	560	517	279.54	0 RUNNING	242	224
9/5/2018 15:25	135.19	4.03	54.3	371.5	560	516	279.24	0 RUNNING	242	224
9/5/2018 15:25	135.48	4.04	54.4	371.6	560	518	281.05	0 RUNNING	242	224
9/5/2018 15:25	135.29	4.04	54.4	371.7	560	516	280.01	0 RUNNING	242	224
9/5/2018 15:25	133.97	4.04	54.4	371.7	560	515	277.2	0 RUNNING	242	224
9/5/2018 15:25	134.86	4.03	54.3	371.4	560	512	278.74	0 RUNNING	242	224
9/5/2018 15:25	134.26	4.03	54.3	371.4	560	509	278.84	0 RUNNING	242	224
9/5/2018 15:25	134.71	4.03	54.3	371.5	560	507	277.76	0 RUNNING	242	224
9/5/2018 15:25	134.61	4.03	54.3	371.5	560	505	277.75	0 RUNNING	242	224
9/5/2018 15:25	134.25	4.03	54.3	371.5	560	503	278.95	0 RUNNING	242	224
9/5/2018 15:25	134.49	4.03	54.4	371.5	560	502	276.22	0 RUNNING	242	224
9/5/2018 15:25	134.58	4.04	54.6	371.8	560	503	278.28	0 RUNNING	242	224
9/5/2018 15:25	134.26	4.04	54.4	371.7	560	502	280.43	0 RUNNING	242	224
9/5/2018 15:25	134.15	4.04	54.4	371.6	560	502	278.38	0 RUNNING	242	224

9/5/2018 15:25	134.44	4.03	54.3	371.5	560	502	277.87	0 RUNNING	242	224
9/5/2018 15:25	134.96	4.03	54.2	371.4	560	501	279.75	0 RUNNING	242	224
9/5/2018 15:25	134.24	4.03	54.3	371.5	560	498	278.79	0 RUNNING	242	224
9/5/2018 15:25	134.76	4.03	54.3	371.5	560	496	277.44	0 RUNNING	242	224
9/5/2018 15:25	134.65	4.03	54.3	371.5	560	493	277.59	0 RUNNING	242	224
9/5/2018 15:25	135	4.04	54.5	371.7	560	489	280.9	0 RUNNING	242	224
9/5/2018 15:25	135.1	4.03	54.4	371.5	560	485	277.76	0 RUNNING	242	224
9/5/2018 15:25	134.89	4.04	54.5	371.7	560	484	280.14	0 RUNNING	242	224
9/5/2018 15:25	135.22	4.03	54.4	371.6	560	482	281	0 RUNNING	242	224
9/5/2018 15:25	134.33	4.03	54.4	371.5	560	483	277.83	0 RUNNING	242	224
9/5/2018 15:25	135.19	4.04	54.4	371.6	560	483	279.53	0 RUNNING	242	224
9/5/2018 15:25	135.27	4.03	54.3	371.5	560	482	279.36	0 RUNNING	242	224
9/5/2018 15:25	135.03	4.03	54.3	371.4	560	480	280.02	0 RUNNING	242	224
9/5/2018 15:25	134.49	4.02	54.2	371.3	560	480	275.54	0 RUNNING	242	224
9/5/2018 15:25	135.35	4.04	54.5	371.7	560	477	280.25	0 RUNNING	242	224
9/5/2018 15:25	135.18	4.03	54.4	371.5	560	473	279.65	0 RUNNING	242	224
9/5/2018 15:25	134.97	4.04	54.4	371.6	560	469	279.49	0 RUNNING	242	224
9/5/2018 15:25	135.38	4.04	54.4	371.6	560	465	280.07	0 RUNNING	242	224
9/5/2018 15:25	134.38	4.03	54.3	371.5	560	465	275.42	0 RUNNING	242	224
9/5/2018 15:25	135.1	4.03	54.4	371.6	560	461	281.68	0 RUNNING	242	224
9/5/2018 15:25	135.01	4.03	54.2	371.4	560	461	277.85	0 RUNNING	242	224
9/5/2018 15:25	134.32	4.04	54.4	371.6	560	462	277.17	0 RUNNING	242	224
9/5/2018 15:25	134.28	4.04	54.4	371.6	560	461	278.98	0 RUNNING	242	224
9/5/2018 15:25	134.76	4.03	54.3	371.5	560	461	277.17	0 RUNNING	242	224
9/5/2018 15:25	134.42	4.04	54.4	371.7	560	463	277.68	0 RUNNING	242	224
9/5/2018 15:25	134.61	4.03	54.4	371.6	560	461	278.67	0 RUNNING	242	224
9/5/2018 15:25	134.69	4.03	54.2	371.4	560	459	278.02	0 RUNNING	242	224
9/5/2018 15:25	134.44	4.02	54.2	371.3	560	459	273.16	0 RUNNING	242	224
9/5/2018 15:25	135.21	4.02	54.2	371.3	560	458	278.35	0 RUNNING	242	224
9/5/2018 15:25	134.19	4.02	54.2	371.3	560	459	277.88	0 RUNNING	242	224
9/5/2018 15:25	135.01	4.03	54.3	371.5	560	466	278.62	0 RUNNING	242	224
9/5/2018 15:25	134.65	4.03	54.3	371.4	560	469	280.02	0 RUNNING	242	224
9/5/2018 15:25	134.56	4.03	54.3	371.4	560	476	276.1	0 RUNNING	242	224
9/5/2018 15:26	134.9	4.03	54.3	371.4	560	479	277.51	0 RUNNING	242	224
9/5/2018 15:26	134.63	4.03	54.4	371.5	560	485	278.24	0 RUNNING	242	224
9/5/2018 15:26	134.92	4.03	54.3	371.5	560	491	278.93	0 RUNNING	242	224
9/5/2018 15:26	135.06	4.03	54.3	371.4	560	496	279.25	0 RUNNING	242	224
9/5/2018 15:26	135.07	4.04	54.3	371.5	560	500	278.71	0 RUNNING	242	224
9/5/2018 15:26	134.85	4.03	54.3	371.5	560	505	276.86	0 RUNNING	242	224
9/5/2018 15:26	135.07	4.04	54.5	371.7	560	507	278.79	0 RUNNING	242	224
9/5/2018 15:26	134.54	4.03	54.3	371.5	560	507	277.56	0 RUNNING	242	224
9/5/2018 15:26	134.43	4.03	54.3	371.5	560	508	279.54	0 RUNNING	242	224
9/5/2018 15:26	133.91	4.03	54.2	371.4	560	508	275.87	0 RUNNING	242	224
9/5/2018 15:26	134.78	4.02	54.2	371.3	560	509	278.79	0 RUNNING	242	224
9/5/2018 15:26	134.61	4.03	54.2	371.4	560	510	278.53	0 RUNNING	242	224
9/5/2018 15:26	134.29	4.03	54.3	371.5	560	512	278.52	0 RUNNING	242	224
9/5/2018 15:26	134.51	4.03	54.3	371.5	560	515	277.23	0 RUNNING	242	224
9/5/2018 15:26	134.79	4.03	54.3	371.4	560	517	277.25	0 RUNNING	242	224
9/5/2018 15:26	135.42	4.03	54.3	371.5	560	519	278.84	0 RUNNING	242	224
9/5/2018 15:26	134.55	4.04	54.3	371.6	560	519	276.26	0 RUNNING	242	224
9/5/2018 15:26	134.24	4.04	54.3	371.6	560	520	277.87	0 RUNNING	242	224
9/5/2018 15:26	134.73	4.04	54.5	371.7	560	521	278.79	0 RUNNING	242	224
9/5/2018 15:26	134.83	4.03	54.3	371.5	560	519	278.95	0 RUNNING	242	224
9/5/2018 15:26	134.79	4.04	54.5	371.7	560	517	280.81	0 RUNNING	242	224
9/5/2018 15:26	134.82	4.04	54.5	371.7	560	517	278.23	0 RUNNING	242	224
9/5/2018 15:26	134.52	4.04	54.4	371.7	560	515	278.33	0 RUNNING	242	224
9/5/2018 15:26	134.37	4.05	54.6	371.9	560	516	277.58	0 RUNNING	242	224
9/5/2018 15:26	135.37	4.03	54.4	371.6	560	515	278.55	0 RUNNING	242	224
9/5/2018 15:26	134.26	4.04	54.4	371.6	560	517	278.04	0 RUNNING	242	224
9/5/2018 15:26	133.94	4.05	54.5	371.8	560	519	277.83	0 RUNNING	242	224
9/5/2018 15:26	135.22	4.04	54.4	371.6	560	518	280.19	0 RUNNING	242	224
9/5/2018 15:26	134.7	4.04	54.4	371.7	560	519	277.37	0 RUNNING	242	224
9/5/2018 15:26	134.38	4.04	54.4	371.7	560	518	277.08	0 RUNNING	242	224
9/5/2018 15:26	135.17	4.04	54.4	371.6	560	518	278.48	0 RUNNING	242	224
9/5/2018 15:26	135.19	4.04	54.5	371.8	560	516	281.7	0 RUNNING	242	224

9/5/2018 15:26	134.56	4.04	54.4	371.6	560	514	277.71	0 RUNNING	242	224
9/5/2018 15:26	134.67	4.04	54.5	371.7	560	513	278.41	0 RUNNING	242	224
9/5/2018 15:26	135.04	4.04	54.5	371.7	560	512	278.79	0 RUNNING	242	224
9/5/2018 15:26	135.19	4.03	54.4	371.5	560	510	279.05	0 RUNNING	242	224
9/5/2018 15:26	134.42	4.04	54.4	371.6	560	511	279.92	0 RUNNING	242	224
9/5/2018 15:26	135.63	4.04	54.4	371.6	560	512	278.43	0 RUNNING	242	224
9/5/2018 15:26	134.92	4.03	54.3	371.5	560	513	279.65	0 RUNNING	242	224
9/5/2018 15:26	134.68	4.04	54.4	371.6	560	514	278.47	0 RUNNING	242	224
9/5/2018 15:26	135.27	4.03	54.3	371.5	560	514	279.32	0 RUNNING	242	224
9/5/2018 15:26	134.22	4.04	54.4	371.6	560	513	277.37	0 RUNNING	242	224
9/5/2018 15:26	134.54	4.03	54.4	371.5	560	511	279.7	0 RUNNING	242	224
9/5/2018 15:26	135.2	4.03	54.2	371.4	560	510	278.07	0 RUNNING	242	224
9/5/2018 15:26	134.4	4.03	54.3	373.2	560	509	276.33	0 RUNNING	242	224
9/5/2018 15:26	134.33	4.03	54.3	373.1	560	505	281.08	0 RUNNING	242	224
9/5/2018 15:26	134.72	4.04	54.4	373.4	560	503	279.39	0 RUNNING	242	224
9/5/2018 15:26	134.38	4.03	54.2	373.1	560	502	276.05	0 RUNNING	242	224
9/5/2018 15:26	134.55	4.03	54.4	373.3	560	503	277.08	0 RUNNING	242	224
9/5/2018 15:26	135.63	4.03	54.3	373.2	560	504	279.25	0 RUNNING	242	224
9/5/2018 15:26	135.37	4.04	54.5	373.4	560	503	281.89	0 RUNNING	242	224
9/5/2018 15:26	135.03	4.03	54.3	373.2	560	503	278.11	0 RUNNING	242	224
9/5/2018 15:26	134.76	4.03	54.4	373.3	560	504	277.58	0 RUNNING	242	224
9/5/2018 15:26	134.74	4.03	54.3	373.2	560	503	276.31	0 RUNNING	242	224
9/5/2018 15:26	135.09	4.04	54.5	371.7	560	502	279.46	0 RUNNING	242	224
9/5/2018 15:26	134.58	4.03	54.3	371.4	560	499	278.98	0 RUNNING	242	224
9/5/2018 15:26	134.95	4.03	54.4	371.6	560	497	278.95	0 RUNNING	242	224
9/5/2018 15:26	134.53	4.03	54.3	371.4	560	493	277.44	0 RUNNING	242	224
9/5/2018 15:26	134.89	4.04	54.4	371.6	560	491	278.96	0 RUNNING	242	224
9/5/2018 15:26	135.34	4.04	54.4	371.6	560	490	279.27	0 RUNNING	242	224
9/5/2018 15:27	134.83	4.03	54.3	371.4	560	488	279.9	0 RUNNING	242	224
9/5/2018 15:27	134.98	4.02	54.2	371.3	560	489	279.39	0 RUNNING	242	224
9/5/2018 15:27	134.96	4.03	54.3	371.5	560	490	277.41	0 RUNNING	242	224
9/5/2018 15:27	134.57	4.04	54.4	371.6	560	491	278.41	0 RUNNING	242	224
9/5/2018 15:27	134.48	4.03	54.4	371.6	560	494	278.35	0 RUNNING	242	224
9/5/2018 15:27	134.48	4.03	54.4	371.6	560	500	278.52	0 RUNNING	242	224
9/5/2018 15:27	135.24	4.04	54.5	371.7	560	500	278.52	0 RUNNING	242	224
9/5/2018 15:27	134.05	4.04	54.3	371.6	560	502	275.81	0 RUNNING	242	224
9/5/2018 15:27	134.55	4.04	54.4	371.6	560	503	276.91	0 RUNNING	242	224
9/5/2018 15:27	134.15	4.04	54.5	371.7	560	502	279.54	0 RUNNING	242	224
9/5/2018 15:27	134.67	4.04	54.4	371.6	560	499	280.78	0 RUNNING	242	224
9/5/2018 15:27	134.62	4.03	54.3	371.5	560	499	278.57	0 RUNNING	242	224
9/5/2018 15:27	134.59	4.03	54.3	371.4	560	498	278.62	0 RUNNING	242	224
9/5/2018 15:27	135.32	4.04	54.4	371.6	560	500	278.12	0 RUNNING	242	224
9/5/2018 15:27	134.57	4.03	54.3	371.4	560	502	275.61	0 RUNNING	242	224
9/5/2018 15:27	134.6	4.04	54.4	371.6	560	503	276.93	0 RUNNING	242	224
9/5/2018 15:27	134.42	4.04	54.5	371.8	560	504	278.16	0 RUNNING	242	224
9/5/2018 15:27	134.65	4.04	54.4	371.6	560	505	279.85	0 RUNNING	242	224
9/5/2018 15:27	134.78	4.03	54.4	371.6	560	507	278.23	0 RUNNING	242	224
9/5/2018 15:27	134.06	4.03	54.4	371.6	560	506	277.47	0 RUNNING	242	224
9/5/2018 15:27	134.7	4.03	54.4	371.5	560	506	279.82	0 RUNNING	242	224
9/5/2018 15:27	134.11	4.04	54.4	371.6	560	504	274.51	0 RUNNING	242	224
9/5/2018 15:27	135.28	4.03	54.3	371.5	560	503	280.11	0 RUNNING	242	224
9/5/2018 15:27	134.82	4.04	54.4	371.6	560	501	278.83	0 RUNNING	242	224
9/5/2018 15:27	135.01	4.04	54.5	371.7	560	501	278.16	0 RUNNING	242	224
9/5/2018 15:27	134.51	4.04	54.3	371.5	560	501	276.79	0 RUNNING	242	224
9/5/2018 15:27	135.38	4.03	54.3	371.5	560	503	279.37	0 RUNNING	242	224
9/5/2018 15:27	134.73	4.05	54.5	371.8	560	504	279.68	0 RUNNING	242	224
9/5/2018 15:27	134.53	4.04	54.4	371.7	560	505	278.62	0 RUNNING	242	224
9/5/2018 15:27	134.7	4.04	54.5	371.7	560	507	276.55	0 RUNNING	242	224
9/5/2018 15:27	135.01	4.04	54.4	371.7	560	507	278.26	0 RUNNING	242	224
9/5/2018 15:27	134.75	4.03	54.4	371.6	560	507	278.79	0 RUNNING	242	224
9/5/2018 15:27	135.25	4.03	54.3	371.5	560	504	281.27	0 RUNNING	242	224
9/5/2018 15:27	134.55	4.04	54.4	371.7	560	503	280.74	0 RUNNING	242	224
9/5/2018 15:27	134.46	4.04	54.4	371.6	560	502	278.98	0 RUNNING	242	224
9/5/2018 15:27	134.99	4.04	54.5	371.7	560	501	277.53	0 RUNNING	242	224
9/5/2018 15:27	134.84	4.04	54.4	371.6	560	501	278.62	0 RUNNING	242	224

9/5/2018 15:27	134.86	4.03	54.3	371.5	560	500	277.82	0 RUNNING	242	224
9/5/2018 15:27	135	4.03	54.4	371.6	560	502	278.83	0 RUNNING	242	224
9/5/2018 15:27	135.01	4.03	54.3	371.5	560	502	279.87	0 RUNNING	242	224
9/5/2018 15:27	135.05	4.03	54.4	371.5	560	503	278.64	0 RUNNING	242	224
9/5/2018 15:27	134.47	4.04	54.4	371.6	560	505	277.35	0 RUNNING	242	224
9/5/2018 15:27	134.96	4.04	54.5	371.7	560	503	279.08	0 RUNNING	242	224
9/5/2018 15:27	134.41	4.04	54.4	371.6	560	504	276.87	0 RUNNING	242	224
9/5/2018 15:27	134.75	4.03	54.3	371.5	560	502	279.27	0 RUNNING	242	224
9/5/2018 15:27	134.45	4.04	54.4	371.6	560	500	276.26	0 RUNNING	242	224
9/5/2018 15:27	134.8	4.03	54.4	371.5	560	499	281.65	0 RUNNING	242	224
9/5/2018 15:27	134.9	4.04	54.4	371.6	560	497	278.02	0 RUNNING	242	224
9/5/2018 15:27	134.43	4.04	54.4	371.7	560	494	278.36	0 RUNNING	242	224
9/5/2018 15:27	135.19	4.04	54.4	371.6	560	494	278.88	0 RUNNING	242	224
9/5/2018 15:27	135.06	4.04	54.4	371.6	560	494	280.19	0 RUNNING	242	224
9/5/2018 15:27	135.09	4.04	54.5	371.8	560	494	279.17	0 RUNNING	242	224
9/5/2018 15:27	135.19	4.04	54.5	371.7	560	495	281.53	0 RUNNING	242	224
9/5/2018 15:27	134.4	4.04	54.4	371.6	560	495	277.75	0 RUNNING	242	224
9/5/2018 15:27	135.25	4.04	54.4	371.6	560	496	276.99	0 RUNNING	242	224
9/5/2018 15:27	134.33	4.03	54.3	371.5	560	493	277.1	0 RUNNING	242	224
9/5/2018 15:27	135.27	4.04	54.4	371.6	560	492	279.65	0 RUNNING	242	224
9/5/2018 15:27	134.26	4.03	54.3	371.4	560	489	279.44	0 RUNNING	242	224
9/5/2018 15:27	135.12	4.03	54.3	371.5	560	486	279.2	0 RUNNING	242	224
9/5/2018 15:28	134.66	4.04	54.5	371.6	560	484	277.61	0 RUNNING	242	224
9/5/2018 15:28	135.58	4.03	54.3	371.5	560	481	279.9	0 RUNNING	242	224
9/5/2018 15:28	135.01	4.03	54.4	371.6	560	480	279.85	0 RUNNING	242	224
9/5/2018 15:28	134.32	4.04	54.3	371.5	560	480	276.34	0 RUNNING	242	224
9/5/2018 15:28	134.71	4.03	54.3	371.5	560	482	277.76	0 RUNNING	242	224
9/5/2018 15:28	134.43	4.03	54.2	371.4	560	485	272.32	0 RUNNING	242	224
9/5/2018 15:28	133.93	4.03	54.1	371.4	560	488	274.03	0 RUNNING	242	224
9/5/2018 15:28	134.57	4.03	54.4	371.6	560	499	281.08	0 RUNNING	242	224
9/5/2018 15:28	134.79	4.03	54.3	371.4	560	510	278.3	0 RUNNING	242	224
9/5/2018 15:28	134.19	4.04	54.4	371.6	560	516	277.35	0 RUNNING	242	224
9/5/2018 15:28	134.97	4.04	54.4	371.6	560	519	276.19	0 RUNNING	242	224
9/5/2018 15:28	134.79	4.04	54.4	371.6	560	521	277.22	0 RUNNING	242	224
9/5/2018 15:28	134.27	4.03	54.3	371.5	560	520	277.95	0 RUNNING	242	224
9/5/2018 15:28	134.77	4.04	54.4	371.6	560	521	276.89	0 RUNNING	242	224
9/5/2018 15:28	134.86	4.04	54.5	371.8	560	522	276.82	0 RUNNING	242	224
9/5/2018 15:28	135.08	4.04	54.5	371.7	560	523	276.6	0 RUNNING	242	224
9/5/2018 15:28	134.48	4.04	54.5	371.7	560	525	277.42	0 RUNNING	242	224
9/5/2018 15:28	134.25	4.04	54.4	371.6	560	525	278.24	0 RUNNING	242	224
9/5/2018 15:28	134.9	4.03	54.2	371.4	560	528	277.49	0 RUNNING	242	224
9/5/2018 15:28	134.46	4.04	54.4	371.6	560	531	278.81	0 RUNNING	242	224
9/5/2018 15:28	134.71	4.04	54.3	371.6	560	531	277.22	0 RUNNING	242	224
9/5/2018 15:28	134.85	4.05	54.5	371.8	560	530	279.51	0 RUNNING	242	224
9/5/2018 15:28	134.21	4.05	54.6	371.9	560	530	276.74	0 RUNNING	242	224
9/5/2018 15:28	134.97	4.05	54.5	371.8	560	529	279.07	0 RUNNING	242	224
9/5/2018 15:28	135.28	4.05	54.6	372	560	526	281.22	0 RUNNING	242	224
9/5/2018 15:28	134.68	4.05	54.6	371.9	560	526	280.06	0 RUNNING	242	224
9/5/2018 15:28	134.81	4.05	54.5	371.9	560	525	278	0 RUNNING	242	224
9/5/2018 15:28	135.11	4.05	54.5	371.8	560	526	279.53	0 RUNNING	242	224
9/5/2018 15:28	135.06	4.05	54.4	371.7	560	527	279.48	0 RUNNING	242	224
9/5/2018 15:28	134.6	4.05	54.5	371.8	560	529	275.8	0 RUNNING	242	224
9/5/2018 15:28	134.58	4.06	54.6	372	560	532	279.15	0 RUNNING	242	224
9/5/2018 15:28	134.65	4.06	54.7	372.1	560	533	278.81	0 RUNNING	242	224
9/5/2018 15:28	135.07	4.05	54.6	371.9	560	535	279.07	0 RUNNING	242	224
9/5/2018 15:28	134.67	4.05	54.5	371.8	560	532	277.99	0 RUNNING	242	224
9/5/2018 15:28	135.12	4.06	54.7	372.1	560	533	278.48	0 RUNNING	242	224
9/5/2018 15:28	134.35	4.05	54.5	371.8	560	531	277.8	0 RUNNING	242	224
9/5/2018 15:28	135.13	4.05	54.4	371.8	560	528	278.67	0 RUNNING	242	224
9/5/2018 15:28	134.54	4.06	54.7	372.1	560	529	278.84	0 RUNNING	242	224
9/5/2018 15:28	135.08	4.05	54.5	371.9	560	526	277.54	0 RUNNING	242	224
9/5/2018 15:28	134.92	4.06	54.6	372	560	528	279.65	0 RUNNING	242	224
9/5/2018 15:28	134.49	4.06	54.7	372.1	560	529	279.08	0 RUNNING	242	224
9/5/2018 15:28	135.23	4.06	54.7	372.1	560	531	279.72	0 RUNNING	242	224
9/5/2018 15:28	135.12	4.07	54.8	372.3	560	533	281.26	0 RUNNING	242	224

9/5/2018 15:28	134.57	4.05	54.6	372	560	533	277.42	0 RUNNING	242	224
9/5/2018 15:28	134.74	4.05	54.5	371.9	560	534	277.68	0 RUNNING	242	224
9/5/2018 15:28	134.95	4.06	54.7	372.1	560	535	279.95	0 RUNNING	242	224
9/5/2018 15:28	134.86	4.06	54.5	372	560	532	278.16	0 RUNNING	242	224
9/5/2018 15:28	135.15	4.07	54.7	372.2	560	531	280.76	0 RUNNING	242	224
9/5/2018 15:28	134.17	4.06	54.6	372.1	560	528	276.91	0 RUNNING	242	224
9/5/2018 15:28	134.79	4.06	54.6	372	560	528	277.41	0 RUNNING	242	224
9/5/2018 15:28	134.49	4.06	54.7	372.2	560	527	278.38	0 RUNNING	242	224
9/5/2018 15:28	134.75	4.06	54.7	372.2	560	528	279.77	0 RUNNING	242	224
9/5/2018 15:28	135.1	4.06	54.7	372.2	560	530	278.67	0 RUNNING	242	224
9/5/2018 15:28	135.39	4.06	54.7	372.1	560	530	277.94	0 RUNNING	242	224
9/5/2018 15:28	134.7	4.06	54.7	372.2	560	532	280.06	0 RUNNING	242	224
9/5/2018 15:28	134.14	4.07	54.7	372.2	560	534	278.04	0 RUNNING	242	224
9/5/2018 15:28	134.42	4.07	54.8	372.3	560	534	279.77	0 RUNNING	242	224
9/5/2018 15:28	134.6	4.07	54.8	372.3	560	534	279.27	0 RUNNING	242	224
9/5/2018 15:28	135.1	4.07	54.7	372.2	560	534	277.54	0 RUNNING	242	224
9/5/2018 15:29	134.83	4.07	54.8	372.3	560	532	278.16	0 RUNNING	242	224
9/5/2018 15:29	135.04	4.06	54.7	372.2	560	530	278.57	0 RUNNING	242	224
9/5/2018 15:29	134.66	4.07	54.9	372.4	560	528	280.91	0 RUNNING	242	224
9/5/2018 15:29	135.05	4.08	54.8	372.4	560	527	279.3	0 RUNNING	242	224
9/5/2018 15:29	134.33	4.08	54.8	372.5	560	528	278	0 RUNNING	242	224
9/5/2018 15:29	135.34	4.07	54.8	372.3	560	529	280.5	0 RUNNING	242	224
9/5/2018 15:29	134.62	4.07	54.9	372.4	560	530	278.98	0 RUNNING	242	224
9/5/2018 15:29	134.93	4.07	54.8	372.4	560	532	279.41	0 RUNNING	242	224
9/5/2018 15:29	134.86	4.09	55	372.6	560	533	278.59	0 RUNNING	242	224
9/5/2018 15:29	134.53	4.07	54.8	372.4	560	536	279.49	0 RUNNING	242	224
9/5/2018 15:29	134.89	4.08	54.9	372.6	560	535	280.19	0 RUNNING	242	224
9/5/2018 15:29	134.59	4.07	54.8	372.3	560	534	278.31	0 RUNNING	242	224
9/5/2018 15:29	134.96	4.08	54.8	372.4	560	531	279.72	0 RUNNING	242	224
9/5/2018 15:29	134.36	4.08	54.8	372.4	560	531	280.49	0 RUNNING	242	224
9/5/2018 15:29	135.45	4.07	54.8	372.3	560	530	279.25	0 RUNNING	242	224
9/5/2018 15:29	134.82	4.07	54.8	372.4	560	528	280.38	0 RUNNING	242	224
9/5/2018 15:29	134.37	4.08	54.9	372.5	560	528	278.6	0 RUNNING	242	224
9/5/2018 15:29	134.36	4.08	54.9	372.6	560	528	276.94	0 RUNNING	242	224
9/5/2018 15:29	135.65	4.09	55.1	372.8	560	531	280.26	0 RUNNING	242	224
9/5/2018 15:29	135.31	4.09	55	372.7	560	532	281.96	0 RUNNING	242	224
9/5/2018 15:29	134.64	4.08	54.9	372.6	560	533	278.71	0 RUNNING	242	224
9/5/2018 15:29	135.65	4.09	54.9	372.6	560	534	278.45	0 RUNNING	242	224
9/5/2018 15:29	134.46	4.08	55	372.6	560	535	279.75	0 RUNNING	242	224
9/5/2018 15:29	134.84	4.08	54.9	372.6	560	534	277.94	0 RUNNING	242	224
9/5/2018 15:29	135.37	4.09	55	372.7	560	532	280.14	0 RUNNING	242	224
9/5/2018 15:29	135.14	4.09	55	372.7	560	530	281.77	0 RUNNING	242	224
9/5/2018 15:29	135.19	4.08	54.9	372.6	560	529	280.83	0 RUNNING	242	224
9/5/2018 15:29	134.75	4.08	55	372.6	560	529	279.44	0 RUNNING	242	224
9/5/2018 15:29	135.21	4.08	54.8	372.4	560	528	278.48	0 RUNNING	242	224
9/5/2018 15:29	135.26	4.08	55	372.6	560	529	277.1	0 RUNNING	242	224
9/5/2018 15:29	135.19	4.08	54.9	372.5	560	529	281.36	0 RUNNING	242	224
9/5/2018 15:29	134.36	4.08	55	372.6	560	530	280.19	0 RUNNING	242	224
9/5/2018 15:29	134.54	4.08	54.8	372.5	560	532	275.85	0 RUNNING	242	224
9/5/2018 15:29	135.53	4.08	54.9	372.6	560	534	280.3	0 RUNNING	242	224
9/5/2018 15:29	134.36	4.08	54.9	372.5	560	534	277.71	0 RUNNING	242	224
9/5/2018 15:29	134.92	4.08	54.9	372.5	560	533	277.63	0 RUNNING	242	224
9/5/2018 15:29	134.82	4.09	55	372.7	560	533	280.62	0 RUNNING	242	224
9/5/2018 15:29	134.32	4.09	54.9	372.6	560	531	278.47	0 RUNNING	242	224
9/5/2018 15:29	134.21	4.08	54.9	372.6	560	530	279.25	0 RUNNING	242	224
9/5/2018 15:29	135.05	4.07	54.8	372.4	560	527	277.95	0 RUNNING	242	224
9/5/2018 15:29	134.24	4.08	54.9	372.5	560	527	277.25	0 RUNNING	242	224
9/5/2018 15:29	134.48	4.08	54.9	372.5	560	527	278.96	0 RUNNING	242	224
9/5/2018 15:29	135.1	4.08	54.9	372.6	560	528	278.33	0 RUNNING	242	224
9/5/2018 15:29	134.8	4.09	55.1	372.7	560	531	278.11	0 RUNNING	242	224
9/5/2018 15:29	134.89	4.09	55	372.7	560	530	279.29	0 RUNNING	242	224
9/5/2018 15:29	135	4.09	55.1	372.8	560	533	280.11	0 RUNNING	242	224
9/5/2018 15:29	134.09	4.09	55	372.7	560	533	276.74	0 RUNNING	242	224
9/5/2018 15:29	135.34	4.09	55.1	372.8	560	532	279.9	0 RUNNING	242	224
9/5/2018 15:29	134.6	4.08	55	372.6	560	531	277.27	0 RUNNING	242	224

9/5/2018 15:29	135	4.08	54.9	372.6	560	530	277.87	0 RUNNING	242	224
9/5/2018 15:29	134.83	4.09	55	372.7	560	528	276.94	0 RUNNING	242	224
9/5/2018 15:29	135	4.09	55.1	372.8	560	526	279.44	0 RUNNING	242	224
9/5/2018 15:29	134.37	4.08	55	372.6	560	526	276.72	0 RUNNING	242	224
9/5/2018 15:29	135.16	4.09	55.2	372.9	560	527	278.33	0 RUNNING	242	224
9/5/2018 15:29	134.29	4.09	55	372.7	560	527	278.35	0 RUNNING	242	224
9/5/2018 15:29	134.12	4.08	54.9	372.5	560	528	277.23	0 RUNNING	242	224
9/5/2018 15:29	135.08	4.09	55	372.7	560	529	278.91	0 RUNNING	242	224
9/5/2018 15:29	134.33	4.09	55	372.6	560	532	276.94	0 RUNNING	242	224
9/5/2018 15:29	135.04	4.09	55	372.7	560	531	277.9	0 RUNNING	242	224
9/5/2018 15:30	135.04	4.09	55	372.7	560	531	277.9	0 RUNNING	242	224
9/5/2018 15:30	134.36	4.08	55	372.6	560	530	278.83	0 RUNNING	242	224
9/5/2018 15:30	134.29	4.08	55	372.6	560	529	276.91	0 RUNNING	242	224
9/5/2018 15:30	134.52	4.08	55	372.7	560	529	276.91	0 RUNNING	242	224
9/5/2018 15:30	134.8	4.09	55.1	372.7	560	527	278.71	0 RUNNING	242	224
9/5/2018 15:30	134.37	4.08	54.9	372.6	560	524	277.83	0 RUNNING	242	224
9/5/2018 15:30	134.95	4.08	55	372.6	560	525	277.83	0 RUNNING	242	224
9/5/2018 15:30	134.78	4.08	55	372.5	560	526	278.91	0 RUNNING	242	224
9/5/2018 15:30	134.82	4.08	54.9	372.5	560	525	279.03	0 RUNNING	242	224
9/5/2018 15:30	134.65	4.08	55	372.6	560	526	276.6	0 RUNNING	242	224
9/5/2018 15:30	135.34	4.08	55	372.6	560	528	280.3	0 RUNNING	242	224
9/5/2018 15:30	135	4.07	54.9	372.5	560	529	279.01	0 RUNNING	242	224
9/5/2018 15:30	135.11	4.07	54.8	372.3	560	528	279.46	0 RUNNING	242	224
9/5/2018 15:30	134.51	4.07	54.8	372.3	560	530	276.82	0 RUNNING	242	224
9/5/2018 15:30	134.79	4.07	54.8	372.3	560	528	277.42	0 RUNNING	242	224
9/5/2018 15:30	134.53	4.07	54.8	372.4	560	526	275.83	0 RUNNING	242	224
9/5/2018 15:30	134.27	4.07	54.9	372.4	560	525	277.63	0 RUNNING	242	224
9/5/2018 15:30	135.3	4.08	55	372.6	560	523	280.3	0 RUNNING	242	224
9/5/2018 15:30	134.91	4.07	54.8	372.4	560	521	278.33	0 RUNNING	242	224
9/5/2018 15:30	134.18	4.07	54.8	372.4	560	521	276.1	0 RUNNING	242	224
9/5/2018 15:30	134.88	4.08	54.9	372.5	560	521	275.68	0 RUNNING	242	224
9/5/2018 15:30	135.71	4.07	54.9	372.4	560	522	277.76	0 RUNNING	242	224
9/5/2018 15:30	134.72	4.07	54.8	372.3	560	522	278.41	0 RUNNING	242	224
9/5/2018 15:30	134.45	4.08	54.9	372.5	560	524	276.79	0 RUNNING	242	224
9/5/2018 15:30	134.68	4.07	54.9	372.4	560	525	278.21	0 RUNNING	242	224
9/5/2018 15:30	134.76	4.07	54.8	372.4	560	523	278.53	0 RUNNING	242	224
9/5/2018 15:30	134.52	4.08	54.9	372.5	560	523	277.22	0 RUNNING	242	224
9/5/2018 15:30	135.32	4.08	55	372.5	560	523	280.25	0 RUNNING	242	224
9/5/2018 15:30	134.47	4.07	54.9	372.4	560	520	275.95	0 RUNNING	242	224
9/5/2018 15:30	134.56	4.07	54.9	372.4	560	516	276.57	0 RUNNING	242	224
9/5/2018 15:30	133.96	4.08	54.9	372.5	560	514	276.65	0 RUNNING	242	224
9/5/2018 15:30	134.76	4.08	55	372.6	560	515	278.98	0 RUNNING	242	224
9/5/2018 15:30	134.3	4.08	54.9	372.4	560	512	276.98	0 RUNNING	242	224
9/5/2018 15:30	134.75	4.07	54.9	372.5	560	513	278.28	0 RUNNING	242	224
9/5/2018 15:30	134.74	4.07	54.9	372.4	560	513	275.88	0 RUNNING	242	224
9/5/2018 15:30	134.85	4.07	54.9	372.4	560	514	277.39	0 RUNNING	242	224
9/5/2018 15:30	134.29	4.07	54.9	372.3	560	512	279.3	0 RUNNING	242	224
9/5/2018 15:30	134.69	4.07	54.8	372.3	560	511	278.06	0 RUNNING	242	224
9/5/2018 15:30	134.28	4.07	54.8	372.3	560	509	278.06	0 RUNNING	242	224
9/5/2018 15:30	135.37	4.07	54.8	372.3	560	505	278.79	0 RUNNING	242	224
9/5/2018 15:30	134.61	4.07	54.9	372.4	560	503	278.16	0 RUNNING	242	224
9/5/2018 15:30	135.3	4.07	54.9	372.3	560	499	278.62	0 RUNNING	242	224
9/5/2018 15:30	134.49	4.06	54.8	372.3	560	496	276.74	0 RUNNING	242	224
9/5/2018 15:30	135.35	4.07	54.8	372.2	560	494	279.34	0 RUNNING	242	224
9/5/2018 15:30	134.36	4.06	54.7	372.1	560	492	277.35	0 RUNNING	242	224
9/5/2018 15:30	135.07	4.06	54.7	372.2	560	491	277.9	0 RUNNING	242	224
9/5/2018 15:30	134.33	4.06	54.7	372.1	560	492	276.55	0 RUNNING	242	224
9/5/2018 15:30	135.05	4.06	54.8	372.2	560	491	277.49	0 RUNNING	242	224
9/5/2018 15:30	134.68	4.05	54.5	371.8	560	490	278.55	0 RUNNING	242	224
9/5/2018 15:30	134.31	4.05	54.6	372	560	489	276.57	0 RUNNING	242	224
9/5/2018 15:30	134.9	4.05	54.5	371.8	560	488	277.51	0 RUNNING	242	224
9/5/2018 15:30	134.78	4.05	54	371.4	560	486	273.01	0 RUNNING	242	224
9/5/2018 15:30	134.62	4.05	54.6	372	560	482	281	0 RUNNING	242	224
9/5/2018 15:30	134.56	4.05	54.6	371.9	560	483	277.32	0 RUNNING	242	224
9/5/2018 15:30	134.74	4.05	54.6	371.9	560	485	275.73	0 RUNNING	242	224

9/5/2018 15:30	134.54	4.05	54.6	371.9	560	486	278.76	0 RUNNING	242	224
9/5/2018 15:30	134.98	4.05	54.5	371.8	560	487	278.6	0 RUNNING	242	224
9/5/2018 15:30	134.88	4.05	54.6	371.9	560	490	279	0 RUNNING	242	224
9/5/2018 15:30	134.46	4.04	54.5	371.8	560	492	276.82	0 RUNNING	242	224
9/5/2018 15:31	135.09	4.05	54.5	371.8	560	494	278.81	0 RUNNING	242	224
9/5/2018 15:31	134.3	4.05	54.5	371.8	560	497	276.26	0 RUNNING	242	224
9/5/2018 15:31	134.78	4.05	54.7	372.1	560	499	277.63	0 RUNNING	242	224
9/5/2018 15:31	134.34	4.04	54.5	371.8	560	498	278.43	0 RUNNING	242	224
9/5/2018 15:31	134.96	4.04	54.4	371.7	560	498	277.1	0 RUNNING	242	224
9/5/2018 15:31	134.62	4.04	54.4	371.6	560	496	276.21	0 RUNNING	242	224
9/5/2018 15:31	134.21	4.04	54.4	371.6	560	495	276.46	0 RUNNING	242	224
9/5/2018 15:31	134.62	4.05	54.6	371.9	560	492	278.35	0 RUNNING	242	224
9/5/2018 15:31	134.52	4.04	54.5	371.8	560	493	276.36	0 RUNNING	242	224
9/5/2018 15:31	134.76	4.04	54.5	371.8	560	493	279.68	0 RUNNING	242	224
9/5/2018 15:31	134.85	4.04	54.5	371.7	560	494	277.23	0 RUNNING	242	224
9/5/2018 15:31	135.04	4.04	54.5	371.8	560	495	276.31	0 RUNNING	242	224
9/5/2018 15:31	134.37	4.05	54.6	371.9	560	496	278.86	0 RUNNING	242	224
9/5/2018 15:31	134.66	4.04	54.5	371.7	560	496	279.95	0 RUNNING	242	224
9/5/2018 15:31	134.92	4.03	54.3	371.5	560	496	276.09	0 RUNNING	242	224
9/5/2018 15:31	135.37	4.03	54.4	371.6	560	496	278.69	0 RUNNING	242	224
9/5/2018 15:31	134.97	4.03	54.4	371.6	560	495	278.57	0 RUNNING	242	224
9/5/2018 15:31	134.54	4.03	54.3	371.5	560	496	275.52	0 RUNNING	242	224
9/5/2018 15:31	134.85	4.05	54.6	371.9	560	497	278.83	0 RUNNING	242	224
9/5/2018 15:31	134.55	4.04	54.4	371.6	560	497	278	0 RUNNING	242	224
9/5/2018 15:31	134.54	4.04	54.5	371.7	560	498	278.43	0 RUNNING	242	224
9/5/2018 15:31	134.52	4.04	54.5	371.7	560	501	276.96	0 RUNNING	242	224
9/5/2018 15:31	135	4.03	54.3	371.5	560	503	277.18	0 RUNNING	242	224
9/5/2018 15:31	134.6	4.03	54.4	371.5	560	506	278.83	0 RUNNING	242	224
9/5/2018 15:31	135.18	4.03	54.2	371.3	560	509	277.87	0 RUNNING	242	224
9/5/2018 15:31	134.61	4.03	54.4	371.6	560	510	278.4	0 RUNNING	242	224
9/5/2018 15:31	134.12	4.04	54.3	371.6	560	511	276.21	0 RUNNING	242	224
9/5/2018 15:31	135.18	4.03	54.3	371.5	560	513	278.04	0 RUNNING	242	224
9/5/2018 15:31	134.12	4.04	54.4	371.6	560	512	277.76	0 RUNNING	242	224
9/5/2018 15:31	134.93	4.02	54.2	371.3	560	511	279.58	0 RUNNING	242	224
9/5/2018 15:31	134.74	4.03	54.2	371.4	560	510	276.48	0 RUNNING	242	224
9/5/2018 15:31	134.53	4.03	54.4	371.5	560	509	278.41	0 RUNNING	242	224
9/5/2018 15:31	134.71	4.03	54.3	371.4	560	507	279.32	0 RUNNING	242	224
9/5/2018 15:31	134.37	4.03	54.3	371.4	560	507	278.48	0 RUNNING	242	224
9/5/2018 15:31	135.19	4.03	54.3	371.5	560	507	278.47	0 RUNNING	242	224
9/5/2018 15:31	135.05	4.03	54.3	371.4	560	508	281.24	0 RUNNING	242	224
9/5/2018 15:31	134.64	4.03	54.3	371.5	560	509	277.7	0 RUNNING	242	224
9/5/2018 15:31	134.34	4.03	54.3	371.5	560	510	277.23	0 RUNNING	242	224
9/5/2018 15:31	134.86	4.03	54.4	371.6	560	508	277.32	0 RUNNING	242	224
9/5/2018 15:31	134.41	4.03	54.3	371.4	560	502	277.41	0 RUNNING	242	224
9/5/2018 15:31	135.23	4.03	54.3	371.4	560	491	280.19	0 RUNNING	242	224
9/5/2018 15:31	135.24	4.03	54.4	371.5	560	475	279.68	0 RUNNING	242	224
9/5/2018 15:31	134.31	4.02	54.2	371.2	560	454	277.32	0 RUNNING	242	224
9/5/2018 15:31	134.79	4.03	54.3	371.4	560	432	278.64	0 RUNNING	242	224
9/5/2018 15:31	134.69	4.02	54.2	371.3	560	411	280.14	0 RUNNING	242	224
9/5/2018 15:31	134.86	4.02	54.3	371.4	560	392	278.45	0 RUNNING	242	224
9/5/2018 15:31	134.91	4.02	54.2	371.3	560	378	275.75	0 RUNNING	242	224
9/5/2018 15:31	135.16	4.02	54.3	371.4	560	364	278.69	0 RUNNING	242	224
9/5/2018 15:31	134.82	4.02	54.2	371.3	560	353	276.99	0 RUNNING	242	224
9/5/2018 15:31	135.11	4.03	54.3	371.4	560	340	278.35	0 RUNNING	242	224
9/5/2018 15:31	134.4	4.03	54.3	371.4	560	330	276.89	0 RUNNING	242	224
9/5/2018 15:31	135.02	4.03	54.3	371.5	560	319	278.45	0 RUNNING	242	224
9/5/2018 15:31	134.52	4.03	54.3	371.4	560	308	278.11	0 RUNNING	242	224
9/5/2018 15:31	134.11	4.03	54.3	371.4	560	295	276.21	0 RUNNING	242	224
9/5/2018 15:31	135.18	4.03	54.3	371.5	560	285	278.36	0 RUNNING	242	224
9/5/2018 15:31	134.59	4.03	54.3	371.5	560	274	276.94	0 RUNNING	242	224
9/5/2018 15:31	135.56	4.02	53.8	371	560	266	273.26	0 RUNNING	242	224
9/5/2018 15:31	134.4	4.02	54	371.1	560	254	278.79	0 RUNNING	242	224
9/5/2018 15:31	134.35	4.03	54.3	371.4	560	247	275.9	0 RUNNING	242	224
9/5/2018 15:32	134.51	4.02	54.1	371.2	560	240	273.61	0 RUNNING	242	224
9/5/2018 15:32	134.4	4.02	54.1	371.2	560	233	276.02	0 RUNNING	242	224

9/5/2018 15:32	135.12	4.02	54.2	369.5	560	226	274.89	0 RUNNING	242	224
9/5/2018 15:32	135.26	4.03	54.4	369.7	560	220	279.27	0 RUNNING	242	224
9/5/2018 15:32	134.28	4.02	54.1	369.5	560	213	274.91	0 RUNNING	242	224
9/5/2018 15:32	134.36	4.02	54.2	369.5	560	207	278.16	0 RUNNING	242	224
9/5/2018 15:32	134.83	4.02	54.1	369.4	560	202	274.67	0 RUNNING	242	224
9/5/2018 15:32	134.61	4.01	54.1	369.4	560	196	275.95	0 RUNNING	242	224
9/5/2018 15:32	134.66	4.02	54.2	369.5	560	191	275.57	0 RUNNING	242	224
9/5/2018 15:32	134.52	4.01	54.1	369.4	560	187	273.5	0 RUNNING	242	224
9/5/2018 15:32	135.29	4.02	54.1	369.4	560	183	278.3	0 RUNNING	242	224
9/5/2018 15:32	134.99	4.02	54.2	369.5	560	180	278.23	0 RUNNING	242	224
9/5/2018 15:32	134.96	4.02	54.2	371.3	560	178	277.15	0 RUNNING	242	224
9/5/2018 15:32	134.95	4.01	54	371	560	174	278.64	0 RUNNING	242	224
9/5/2018 15:32	134.79	4.01	54.1	371	560	171	276.7	0 RUNNING	242	224
9/5/2018 15:32	135.44	4.01	54.1	371.1	560	169	278.55	0 RUNNING	242	224
9/5/2018 15:32	134.76	4.01	54.1	371.1	560	165	278.12	0 RUNNING	242	224
9/5/2018 15:32	134.68	4.01	54	371	560	162	277.13	0 RUNNING	242	224
9/5/2018 15:32	135.12	4.02	54.2	371.2	560	159	276.93	0 RUNNING	242	224
9/5/2018 15:32	134.58	4.01	54.1	371.1	560	156	275.97	0 RUNNING	242	224
9/5/2018 15:32	135.13	4.02	54.3	371.3	560	153	277.8	0 RUNNING	242	224
9/5/2018 15:32	134.87	4.01	54	371	560	150	278.79	0 RUNNING	242	224
9/5/2018 15:32	134.76	4.01	54.1	371.1	560	148	275.87	0 RUNNING	242	224
9/5/2018 15:32	134.84	4.01	54	371.1	560	147	277.34	0 RUNNING	242	224
9/5/2018 15:32	134.94	4.01	54	371.1	560	144	277.64	0 RUNNING	242	224
9/5/2018 15:32	134.44	4.01	54.1	371.1	560	143	276.14	0 RUNNING	242	224
9/5/2018 15:32	135.32	4.01	54.1	371	560	141	277.13	0 RUNNING	242	224
9/5/2018 15:32	134.63	4.02	54.2	371.2	560	139	274.56	0 RUNNING	242	224
9/5/2018 15:32	135.1	4.01	54.1	371	560	137	279.22	0 RUNNING	242	224
9/5/2018 15:32	134.46	4.01	54	371	560	133	276.48	0 RUNNING	242	224
9/5/2018 15:32	134.52	4.01	54	371	560	132	274.41	0 RUNNING	242	224
9/5/2018 15:32	135.04	4.01	54.2	371.1	560	130	278.72	0 RUNNING	242	224
9/5/2018 15:32	134.3	4.01	54.1	371.1	560	127	274.7	0 RUNNING	242	224
9/5/2018 15:32	134.68	4.01	54.1	371	560	125	278.79	0 RUNNING	242	224
9/5/2018 15:32	134.8	4.01	54	371	560	122	275.25	0 RUNNING	242	224
9/5/2018 15:32	134.74	4.01	54.1	371.1	560	120	276.72	0 RUNNING	242	224
9/5/2018 15:32	133.79	4	53.8	370.7	560	118	271.38	0 RUNNING	242	224
9/5/2018 15:32	134.91	4	53.9	370.8	560	118	277.2	0 RUNNING	242	224
9/5/2018 15:32	135.11	4	53.9	370.8	560	113	279.7	0 RUNNING	242	224
9/5/2018 15:32	134.77	4	53.8	370.7	560	110	274.65	0 RUNNING	242	224
9/5/2018 15:32	135.8	4	54	370.9	560	110	276.79	0 RUNNING	242	224
9/5/2018 15:32	134.38	4	53.9	370.8	560	107	272.77	0 RUNNING	242	224
9/5/2018 15:32	135.41	4.01	54.2	371.2	560	104	277.95	0 RUNNING	242	224
9/5/2018 15:32	134.48	4	54	370.9	560	99	279.41	0 RUNNING	242	224
9/5/2018 15:32	133.93	4.01	54	370.9	560	96	276	0 RUNNING	242	224
9/5/2018 15:32	134.54	4	53.9	370.8	560	96	276.28	0 RUNNING	242	224
9/5/2018 15:32	135.3	4	53.9	370.8	560	97	278.23	0 RUNNING	242	224
9/5/2018 15:32	134.35	4.01	54.1	371	560	100	276.86	0 RUNNING	242	224
9/5/2018 15:32	135.14	4.01	54.1	371.1	560	107	277.42	0 RUNNING	242	224
9/5/2018 15:32	135.41	4.01	54.1	371.1	560	115	279.2	0 RUNNING	242	224
9/5/2018 15:32	134.73	4	54	370.9	560	121	276.34	0 RUNNING	242	224
9/5/2018 15:32	134.8	4	53.9	370.8	560	124	277.11	0 RUNNING	242	224
9/5/2018 15:32	134.47	4	53.9	370.8	560	126	277.66	0 RUNNING	242	224
9/5/2018 15:32	134.47	4	53.9	370.8	560	129	276.99	0 RUNNING	242	224
9/5/2018 15:32	135.3	4	53.9	370.8	560	129	276.99	0 RUNNING	242	224
9/5/2018 15:32	134.62	4.01	54.1	371	560	130	276.86	0 RUNNING	242	224
9/5/2018 15:32	134.73	4.01	54	370.9	560	132	277.9	0 RUNNING	242	224
9/5/2018 15:32	135.38	4	54	370.9	560	133	280.42	0 RUNNING	242	224
9/5/2018 15:32	134.63	4	53.8	370.8	560	135	276.34	0 RUNNING	242	224
9/5/2018 15:32	134.22	4.01	54.1	371	560	138	274.39	0 RUNNING	242	224
9/5/2018 15:33	135	4.01	54	371	560	139	277.71	0 RUNNING	242	224
9/5/2018 15:33	134.5	4.02	54.2	371.2	560	142	278.02	0 RUNNING	242	224
9/5/2018 15:33	134.68	4	53.9	370.8	560	143	275.37	0 RUNNING	242	224
9/5/2018 15:33	134.92	4.02	54.2	371.2	560	147	279.3	0 RUNNING	242	224
9/5/2018 15:33	134.72	4.01	54	370.9	560	149	278.67	0 RUNNING	242	224
9/5/2018 15:33	134.51	4.01	54	370.9	560	159	274.63	0 RUNNING	242	224
9/5/2018 15:33	135.28	4.02	54.2	371.2	560	171	277.73	0 RUNNING	242	224

9/5/2018 15:33	134.27	4.01	54	370.9	560	180	278.24	0 RUNNING	242	224
9/5/2018 15:33	134.5	4.02	54.2	371.2	560	191	276.94	0 RUNNING	242	224
9/5/2018 15:33	134.19	4.01	53.8	370.8	560	201	272.43	0 RUNNING	242	224
9/5/2018 15:33	135.18	4.01	54	371	560	212	276.52	0 RUNNING	242	224
9/5/2018 15:33	134.03	4.01	54.1	371.1	560	226	273.76	0 RUNNING	242	224
9/5/2018 15:33	136.07	4.01	54.1	371.1	560	244	276.16	0 RUNNING	242	224
9/5/2018 15:33	133.98	4.01	53.9	369.1	560	263	277.85	0 RUNNING	242	224
9/5/2018 15:33	135.56	4.01	54	369.2	560	286	278.24	0 RUNNING	242	224
9/5/2018 15:33	134.68	4.01	54	369.2	560	308	277.15	0 RUNNING	242	224
9/5/2018 15:33	135.45	4.01	54	369.2	560	326	278.95	0 RUNNING	242	224
9/5/2018 15:33	134.94	4.01	54	369.2	560	344	276.33	0 RUNNING	242	224
9/5/2018 15:33	135.18	4.01	54.1	369.3	560	360	278.11	0 RUNNING	242	224
9/5/2018 15:33	134.58	4.01	54	369.3	560	375	278.3	0 RUNNING	242	224
9/5/2018 15:33	135.07	4.01	54	369.2	560	389	278.33	0 RUNNING	242	224
9/5/2018 15:33	134.6	4	53.9	369.1	560	403	274.82	0 RUNNING	242	224
9/5/2018 15:33	134.48	4.01	54	369.2	560	416	276.7	0 RUNNING	242	224
9/5/2018 15:33	134.69	4	53.9	369.1	560	427	277.37	0 RUNNING	242	224
9/5/2018 15:33	134.25	4	53.9	369.1	560	439	275.97	0 RUNNING	242	224
9/5/2018 15:33	135.02	4	53.9	369	560	450	279.13	0 RUNNING	242	224
9/5/2018 15:33	134.5	4	53.9	369.1	560	460	277.29	0 RUNNING	242	224
9/5/2018 15:33	135.08	4.01	54	369.2	560	469	278.47	0 RUNNING	242	224
9/5/2018 15:33	135.09	4	53.8	369	560	478	277.71	0 RUNNING	242	224
9/5/2018 15:33	134.9	4	53.9	369	560	486	277.59	0 RUNNING	242	224
9/5/2018 15:33	135.19	4	53.9	369	560	493	277.94	0 RUNNING	242	224
9/5/2018 15:33	134.97	4	53.9	369	560	491	281.72	0 RUNNING	242	224
9/5/2018 15:33	134.7	4	53.9	369.1	560	486	275.06	0 RUNNING	242	224
9/5/2018 15:33	134.81	4	53.9	369	560	485	278.38	0 RUNNING	242	224
9/5/2018 15:33	134.38	4	53.8	369	560	478	278.24	0 RUNNING	242	224
9/5/2018 15:33	134.08	4	54	369.1	560	475	279.37	0 RUNNING	242	224
9/5/2018 15:33	134.87	4	53.9	369.1	560	474	277.32	0 RUNNING	242	224
9/5/2018 15:33	134.45	4	53.9	369	560	474	278.09	0 RUNNING	242	224
9/5/2018 15:33	134.89	4	53.9	369.1	560	474	276.16	0 RUNNING	242	224
9/5/2018 15:33	134.65	4.01	54	369.2	560	476	277.44	0 RUNNING	242	224
9/5/2018 15:33	135.11	4	54	369.1	560	477	277.3	0 RUNNING	242	224
9/5/2018 15:33	134.86	4	53.9	369.1	560	478	277.83	0 RUNNING	242	224
9/5/2018 15:33	134.46	4	54	369.1	560	478	277.78	0 RUNNING	242	224
9/5/2018 15:33	134.28	4	53.8	369	560	478	277.35	0 RUNNING	242	224
9/5/2018 15:33	134.66	4	53.9	369	560	477	275.69	0 RUNNING	242	224
9/5/2018 15:33	134.98	4	53.9	369	560	474	279.17	0 RUNNING	242	224
9/5/2018 15:33	134.96	4	53.9	369	560	471	279.08	0 RUNNING	242	224
9/5/2018 15:33	134.49	4.01	54	369.2	560	470	277.85	0 RUNNING	242	224
9/5/2018 15:33	134.19	4	53.9	369	560	469	277.56	0 RUNNING	242	224
9/5/2018 15:33	134.92	4	54	369.1	560	468	279.03	0 RUNNING	242	224
9/5/2018 15:33	134.43	4.01	54	369.2	560	469	277.22	0 RUNNING	242	224
9/5/2018 15:33	134.64	4	53.9	369.1	560	469	276.72	0 RUNNING	242	224
9/5/2018 15:33	135.53	4.01	54	369.2	560	472	279.51	0 RUNNING	242	224
9/5/2018 15:33	134.79	4.01	54.1	369.3	560	471	278.76	0 RUNNING	242	224
9/5/2018 15:33	134.19	4.01	54	369.2	560	473	278.79	0 RUNNING	242	224
9/5/2018 15:33	134.89	4	54	369.2	560	471	278.38	0 RUNNING	242	224
9/5/2018 15:33	134.96	4.01	54	369.2	560	470	278.6	0 RUNNING	242	224
9/5/2018 15:33	134.66	4.01	53.9	369.1	560	468	276.33	0 RUNNING	242	224
9/5/2018 15:33	134.4	4.01	54	369.2	560	465	279.29	0 RUNNING	242	224
9/5/2018 15:34	134.75	4.01	53.9	369.2	560	462	277.32	0 RUNNING	242	224
9/5/2018 15:34	135.46	4	54	369.1	560	462	280.42	0 RUNNING	242	224
9/5/2018 15:34	135	4.01	54	369.2	560	460	277.78	0 RUNNING	242	224
9/5/2018 15:34	134.72	4	54	369.1	560	461	279.46	0 RUNNING	242	224
9/5/2018 15:34	134.35	4	53.9	369	560	461	278.19	0 RUNNING	242	224
9/5/2018 15:34	135.16	4	53.9	369.1	560	464	277.83	0 RUNNING	242	224
9/5/2018 15:34	134.69	4.01	54.1	369.3	560	464	277.22	0 RUNNING	242	224
9/5/2018 15:34	134.8	4	54	369.1	560	464	278.84	0 RUNNING	242	224
9/5/2018 15:34	134.24	4	53.9	369.1	560	464	276.4	0 RUNNING	242	224
9/5/2018 15:34	135.2	4	53.9	369	560	463	276.93	0 RUNNING	242	224
9/5/2018 15:34	134.57	4	54	369.1	560	461	278.93	0 RUNNING	242	224
9/5/2018 15:34	135.42	4	53.9	369	560	457	279.44	0 RUNNING	242	224
9/5/2018 15:34	135.3	4.01	54.1	369.3	560	454	279.37	0 RUNNING	242	224

9/5/2018 15:34	134.61	4	53.9	369.1	560	451	278.02	0 RUNNING	242	224
9/5/2018 15:34	134.43	4.01	54	369.2	560	451	277.75	0 RUNNING	242	224
9/5/2018 15:34	134.53	4.01	54	369.2	560	450	278.36	0 RUNNING	242	224
9/5/2018 15:34	135.29	4.01	54	369.3	560	451	277.95	0 RUNNING	242	224
9/5/2018 15:34	134.98	4.01	54.1	369.3	560	452	278.23	0 RUNNING	242	224
9/5/2018 15:34	135.15	4.01	54	369.2	560	450	279.22	0 RUNNING	242	224
9/5/2018 15:34	134.86	4	53.9	369.1	560	451	277.78	0 RUNNING	242	224
9/5/2018 15:34	134.41	4.01	54.1	369.3	560	450	277.27	0 RUNNING	242	224
9/5/2018 15:34	134.75	4.01	54	369.2	560	449	279.36	0 RUNNING	242	224
9/5/2018 15:34	134.66	4	53.9	369.1	560	447	277.44	0 RUNNING	242	224
9/5/2018 15:34	134.58	4	53.8	368.9	560	445	276.02	0 RUNNING	242	224
9/5/2018 15:34	134.83	4	53.9	369.1	560	443	278.48	0 RUNNING	242	224
9/5/2018 15:34	134.91	4	53.9	369.1	560	440	278.81	0 RUNNING	242	224
9/5/2018 15:34	134.63	4	53.9	369	560	439	276.93	0 RUNNING	242	224
9/5/2018 15:34	135.14	4	53.9	369.1	560	438	277.61	0 RUNNING	242	224
9/5/2018 15:34	134.8	4	53.9	369.1	560	439	277.53	0 RUNNING	242	224
9/5/2018 15:34	134.31	4	54	369.2	560	440	278.4	0 RUNNING	242	224
9/5/2018 15:34	135.44	4	53.8	369	560	439	278.07	0 RUNNING	242	224
9/5/2018 15:34	135.09	4	54	369.1	560	440	277.56	0 RUNNING	242	224
9/5/2018 15:34	134.96	4.01	54	369.2	560	439	281.2	0 RUNNING	242	224
9/5/2018 15:34	135.4	4	53.9	369.1	560	438	278.48	0 RUNNING	242	224
9/5/2018 15:34	134.26	4.01	53.9	369.1	560	437	275.95	0 RUNNING	242	224
9/5/2018 15:34	134.67	4.01	54	369.3	560	435	276.22	0 RUNNING	242	224
9/5/2018 15:34	135.31	4.02	54.2	369.5	560	433	279.46	0 RUNNING	242	224
9/5/2018 15:34	134.57	4.01	54.1	369.3	560	431	277.41	0 RUNNING	242	224
9/5/2018 15:34	134.66	4.01	54.1	369.3	560	430	277.92	0 RUNNING	242	224
9/5/2018 15:34	134.61	4.01	54	369.3	560	430	276.21	0 RUNNING	242	224
9/5/2018 15:34	135.2	4	53.9	369.1	560	432	278.36	0 RUNNING	242	224
9/5/2018 15:34	135.13	4.01	54	369.2	560	433	277.27	0 RUNNING	242	224
9/5/2018 15:34	134.36	4.01	54	369.3	560	435	276.57	0 RUNNING	242	224
9/5/2018 15:34	134.54	4.01	54	369.2	560	435	276.87	0 RUNNING	242	224
9/5/2018 15:34	134.81	4.01	54.1	369.4	560	435	278.55	0 RUNNING	242	224
9/5/2018 15:34	134.7	4.01	53.9	369.1	560	434	276.87	0 RUNNING	242	224
9/5/2018 15:34	135.11	4.02	54.1	369.4	560	435	278.86	0 RUNNING	242	224
9/5/2018 15:34	134.58	4.01	54	369.3	560	433	275.16	0 RUNNING	242	224
9/5/2018 15:34	134.81	4.02	54.2	369.5	560	432	278.74	0 RUNNING	242	224
9/5/2018 15:34	134.19	4.01	53.9	369.2	560	428	278.47	0 RUNNING	242	224
9/5/2018 15:34	134.74	4.01	54.1	369.3	560	429	275.81	0 RUNNING	242	224
9/5/2018 15:34	135.13	4.01	54	369.3	560	430	278.35	0 RUNNING	242	224
9/5/2018 15:34	134.78	4.02	54.1	369.4	560	431	277.25	0 RUNNING	242	224
9/5/2018 15:34	134.64	4.02	54.1	369.4	560	434	276.72	0 RUNNING	242	224
9/5/2018 15:34	135.28	4.02	54.1	369.5	560	436	278.09	0 RUNNING	242	224
9/5/2018 15:34	134.47	4.02	54.2	369.5	560	440	276.58	0 RUNNING	242	224
9/5/2018 15:34	134.29	4.02	54.2	369.4	560	445	278.07	0 RUNNING	242	224
9/5/2018 15:34	134.9	4.02	54.1	369.4	560	447	279.56	0 RUNNING	242	224
9/5/2018 15:34	134.43	4.01	54	369.2	560	447	276.02	0 RUNNING	242	224
9/5/2018 15:35	135.42	4.01	54.1	369.4	560	446	278.71	0 RUNNING	242	224
9/5/2018 15:35	135.1	4.01	54.1	369.4	560	444	278.3	0 RUNNING	242	224
9/5/2018 15:35	133.94	4.02	54.1	369.4	560	443	276.17	0 RUNNING	242	224
9/5/2018 15:35	134.96	4.02	54.2	369.6	560	446	275.8	0 RUNNING	242	224
9/5/2018 15:35	134.01	4.02	54.1	369.4	560	447	274.6	0 RUNNING	242	224
9/5/2018 15:35	134.57	4.02	54.1	369.4	560	455	275.23	0 RUNNING	242	224
9/5/2018 15:35	134.83	4.01	54.1	369.4	560	463	279.99	0 RUNNING	242	224
9/5/2018 15:35	134.76	4.02	54.2	369.5	560	475	277.92	0 RUNNING	242	224
9/5/2018 15:35	135.05	4.02	54.2	369.5	560	486	279.01	0 RUNNING	242	224
9/5/2018 15:35	134.35	4.02	54.2	369.6	560	497	275.47	0 RUNNING	242	224
9/5/2018 15:35	135.39	4.02	54.3	369.6	560	503	280.9	0 RUNNING	242	224
9/5/2018 15:35	134.87	4.01	54.1	369.3	560	507	277.41	0 RUNNING	242	224
9/5/2018 15:35	135.23	4.02	54.1	369.4	560	510	278.43	0 RUNNING	242	224
9/5/2018 15:35	134.72	4.03	54.3	369.7	560	511	280.67	0 RUNNING	242	224
9/5/2018 15:35	134.58	4.02	54.1	369.5	560	512	276.99	0 RUNNING	242	224
9/5/2018 15:35	134.82	4.02	54.3	369.6	560	513	277.17	0 RUNNING	242	224
9/5/2018 15:35	134.68	4.02	54.1	369.4	560	514	276.65	0 RUNNING	242	224
9/5/2018 15:35	134.23	4.03	54.2	369.6	560	515	274.79	0 RUNNING	242	224
9/5/2018 15:35	135.27	4.02	54.2	369.6	560	518	279.68	0 RUNNING	242	224

9/5/2018 15:35	134.69	4.02	54.2	369.5	560	522	278.31	0 RUNNING	242	224
9/5/2018 15:35	134.43	4.02	54.2	369.5	560	524	276.46	0 RUNNING	242	224
9/5/2018 15:35	134.28	4.03	54.3	369.8	560	525	274.91	0 RUNNING	242	224
9/5/2018 15:35	135.44	4.02	54.3	369.6	560	526	280.09	0 RUNNING	242	224
9/5/2018 15:35	134.69	4.02	54.1	369.4	560	525	278.55	0 RUNNING	242	224
9/5/2018 15:35	134.92	4.02	54.2	369.6	560	524	276.19	0 RUNNING	242	224
9/5/2018 15:35	134.6	4.03	54.3	369.7	560	524	277.92	0 RUNNING	242	224
9/5/2018 15:35	134.79	4.03	54.3	369.7	560	522	280.28	0 RUNNING	242	224
9/5/2018 15:35	135.13	4.03	54.3	369.7	560	521	277.44	0 RUNNING	242	224
9/5/2018 15:35	134.4	4.03	54.3	369.7	560	521	276.7	0 RUNNING	242	224
9/5/2018 15:35	135.12	4.02	54.2	369.6	560	523	277.32	0 RUNNING	242	224
9/5/2018 15:35	134.81	4.03	54.4	369.8	560	524	277.64	0 RUNNING	242	224
9/5/2018 15:35	134.61	4.03	54.3	369.7	560	527	277.39	0 RUNNING	242	224
9/5/2018 15:35	134.9	4.03	54.3	369.7	560	528	279.36	0 RUNNING	242	224
9/5/2018 15:35	134.51	4.02	54.2	369.5	560	528	277.34	0 RUNNING	242	224
9/5/2018 15:35	134.8	4.03	54.3	369.7	560	529	278.45	0 RUNNING	242	224
9/5/2018 15:35	134.53	4.04	54.4	369.8	560	529	276.91	0 RUNNING	242	224
9/5/2018 15:35	134.63	4.03	54.2	369.6	560	528	276.72	0 RUNNING	242	224
9/5/2018 15:35	134.3	4.03	54.3	369.7	560	526	278.72	0 RUNNING	242	224
9/5/2018 15:35	135.21	4.03	54.4	369.8	560	525	278.62	0 RUNNING	242	224
9/5/2018 15:35	134.42	4.03	54.3	369.7	560	524	276.86	0 RUNNING	242	224
9/5/2018 15:35	135.12	4.04	54.5	370	560	525	279.73	0 RUNNING	242	224
9/5/2018 15:35	134.5	4.03	54.3	369.7	560	524	278.31	0 RUNNING	242	224
9/5/2018 15:35	134.8	4.03	54.3	369.7	560	526	276.36	0 RUNNING	242	224
9/5/2018 15:35	134.33	4.04	54.4	369.9	560	529	278.52	0 RUNNING	242	224
9/5/2018 15:35	134.42	4.04	54.3	369.8	560	530	277.05	0 RUNNING	242	224
9/5/2018 15:35	135.16	4.04	54.4	369.9	560	531	279.01	0 RUNNING	242	224
9/5/2018 15:35	135.16	4.04	54.4	369.9	560	530	277.2	0 RUNNING	242	224
9/5/2018 15:35	134.42	4.04	54.3	369.8	560	530	277.2	0 RUNNING	242	224
9/5/2018 15:35	134.77	4.04	54.4	369.8	560	531	277.54	0 RUNNING	242	224
9/5/2018 15:35	134.54	4.04	54.4	369.9	560	529	279.24	0 RUNNING	242	224
9/5/2018 15:35	135.01	4.03	54.3	369.7	560	529	276.43	0 RUNNING	242	224
9/5/2018 15:35	135.15	4.03	54.3	369.8	560	527	278.91	0 RUNNING	242	224
9/5/2018 15:35	134.91	4.04	54.4	369.9	560	527	279.89	0 RUNNING	242	224
9/5/2018 15:35	134.98	4.04	54.4	369.9	560	525	277.53	0 RUNNING	242	224
9/5/2018 15:35	135.13	4.04	54.4	369.9	560	526	279.44	0 RUNNING	242	224
9/5/2018 15:35	134.81	4.04	54.4	369.8	560	527	279.42	0 RUNNING	242	224
9/5/2018 15:35	134.52	4.05	54.6	370.1	560	530	278.35	0 RUNNING	242	224
9/5/2018 15:35	135.16	4.03	54.2	369.7	560	530	276.24	0 RUNNING	242	224
9/5/2018 15:35	134.83	4.05	54.5	370.1	560	533	279.42	0 RUNNING	242	224
9/5/2018 15:36	135.33	4.04	54.3	369.9	560	531	279.37	0 RUNNING	242	224
9/5/2018 15:36	134.36	4.04	54.4	370	560	533	276.45	0 RUNNING	242	224
9/5/2018 15:36	134.63	4.04	54.3	369.8	560	532	277.23	0 RUNNING	242	224
9/5/2018 15:36	135.26	4.05	54.5	370.1	560	529	278.4	0 RUNNING	242	224
9/5/2018 15:36	134.4	4.04	54.4	369.9	560	529	278	0 RUNNING	242	224
9/5/2018 15:36	134.87	4.05	54.5	370.2	560	528	276.67	0 RUNNING	242	224
9/5/2018 15:36	134.11	4.05	54.6	370.2	560	527	278.98	0 RUNNING	242	224
9/5/2018 15:36	134.68	4.06	54.7	370.4	560	527	279.51	0 RUNNING	242	224
9/5/2018 15:36	134.52	4.05	54.6	370.2	560	529	277.25	0 RUNNING	242	224
9/5/2018 15:36	134.72	4.06	54.7	370.3	560	529	278.81	0 RUNNING	242	224
9/5/2018 15:36	133.75	4.05	54.5	370.1	560	531	275.9	0 RUNNING	242	224
9/5/2018 15:36	135.64	4.06	54.6	370.3	560	533	278.76	0 RUNNING	242	224
9/5/2018 15:36	134.15	4.06	54.6	370.3	560	534	278.47	0 RUNNING	242	224
9/5/2018 15:36	134.98	4.05	54.4	370.1	560	533	276.14	0 RUNNING	242	224
9/5/2018 15:36	135.19	4.06	54.7	370.4	560	533	278.93	0 RUNNING	242	224
9/5/2018 15:36	134.11	4.06	54.6	370.2	560	531	278.04	0 RUNNING	242	224
9/5/2018 15:36	134.84	4.05	54.5	370.1	560	529	277.3	0 RUNNING	242	224
9/5/2018 15:36	134.83	4.06	54.6	370.3	560	528	281.55	0 RUNNING	242	224
9/5/2018 15:36	133.46	4.06	54.5	370.2	560	526	274.63	0 RUNNING	242	224
9/5/2018 15:36	134.62	4.06	54.7	370.4	560	528	278.93	0 RUNNING	242	224
9/5/2018 15:36	134.67	4.06	54.7	370.4	560	530	278.55	0 RUNNING	242	224
9/5/2018 15:36	135.11	4.06	54.6	370.3	560	529	280.06	0 RUNNING	242	224
9/5/2018 15:36	134.41	4.05	54.5	370.2	560	532	277.59	0 RUNNING	242	224
9/5/2018 15:36	135.07	4.06	54.6	370.3	560	533	279.73	0 RUNNING	242	224
9/5/2018 15:36	134.65	4.06	54.6	370.3	560	534	277.47	0 RUNNING	242	224

9/5/2018 15:36	134.8	4.06	54.7	370.4	560	535	277.56	0 RUNNING	242	224
9/5/2018 15:36	134.94	4.06	54.7	370.4	560	533	278.59	0 RUNNING	242	224
9/5/2018 15:36	135.28	4.06	54.7	370.4	560	533	280.76	0 RUNNING	242	224
9/5/2018 15:36	133.95	4.06	54.5	370.3	560	529	276.69	0 RUNNING	242	224
9/5/2018 15:36	135.22	4.06	54.6	370.4	560	529	279.75	0 RUNNING	242	224
9/5/2018 15:36	134.55	4.07	54.7	370.5	560	529	278.6	0 RUNNING	242	224
9/5/2018 15:36	135.01	4.07	54.8	370.5	560	529	278.28	0 RUNNING	242	224
9/5/2018 15:36	134.77	4.06	54.7	370.4	560	529	278.81	0 RUNNING	242	224
9/5/2018 15:36	134.59	4.07	54.9	370.7	560	532	279.63	0 RUNNING	242	224
9/5/2018 15:36	134.33	4.07	54.8	370.6	560	532	278	0 RUNNING	242	224
9/5/2018 15:36	135.27	4.07	54.7	370.6	560	533	279.2	0 RUNNING	242	224
9/5/2018 15:36	134.41	4.07	54.7	370.5	560	535	279.27	0 RUNNING	242	224
9/5/2018 15:36	134.85	4.08	54.9	370.8	560	535	278.28	0 RUNNING	242	224
9/5/2018 15:36	134.26	4.08	54.8	370.7	560	534	279.51	0 RUNNING	242	224
9/5/2018 15:36	134.29	4.08	54.9	370.8	560	532	279.8	0 RUNNING	242	224
9/5/2018 15:36	135.26	4.09	55	371	560	532	280.07	0 RUNNING	242	224
9/5/2018 15:36	134.43	4.09	54.9	370.9	560	529	278.67	0 RUNNING	242	224
9/5/2018 15:36	134.89	4.08	54.9	370.8	560	529	277.8	0 RUNNING	242	224
9/5/2018 15:36	134.54	4.09	55.1	371	560	530	278.28	0 RUNNING	242	224
9/5/2018 15:36	134.68	4.09	54.9	370.9	560	529	279.41	0 RUNNING	242	224
9/5/2018 15:36	134.34	4.09	55	370.9	560	531	277.58	0 RUNNING	242	224
9/5/2018 15:36	134.52	4.08	54.9	370.8	560	533	276.69	0 RUNNING	242	224
9/5/2018 15:36	134.11	4.09	55	371	560	535	279.44	0 RUNNING	242	224
9/5/2018 15:36	135.05	4.1	55.1	371.2	560	535	279.01	0 RUNNING	242	224
9/5/2018 15:36	134.54	4.09	55	371	560	534	279.82	0 RUNNING	242	224
9/5/2018 15:36	134.55	4.1	55.1	371.1	560	534	279.01	0 RUNNING	242	224
9/5/2018 15:36	134.99	4.09	55	370.9	560	534	280.35	0 RUNNING	242	224
9/5/2018 15:36	135.63	4.09	55	371	560	533	280.14	0 RUNNING	242	224
9/5/2018 15:36	134.47	4.09	55	371	560	529	279.66	0 RUNNING	242	224
9/5/2018 15:36	134.57	4.09	55	371	560	529	276.86	0 RUNNING	242	224
9/5/2018 15:36	134.77	4.09	55.1	371.1	560	529	278.93	0 RUNNING	242	224
9/5/2018 15:36	135.1	4.09	55	371	560	530	279.03	0 RUNNING	242	224
9/5/2018 15:36	134.77	4.09	54.8	370.8	560	528	279.01	0 RUNNING	242	224
9/5/2018 15:36	134.88	4.09	55	370.9	560	533	280.37	0 RUNNING	242	224
9/5/2018 15:37	135.14	4.08	54.8	370.8	560	533	278.81	0 RUNNING	242	224
9/5/2018 15:37	134.98	4.09	55.1	371.1	560	535	279.48	0 RUNNING	242	224
9/5/2018 15:37	135.1	4.1	55.1	371.1	560	534	280.43	0 RUNNING	242	224
9/5/2018 15:37	134.9	4.09	55.1	371	560	536	279.54	0 RUNNING	242	224
9/5/2018 15:37	134.34	4.09	55	370.9	560	533	278.59	0 RUNNING	242	224
9/5/2018 15:37	134.56	4.08	54.9	370.8	560	533	279.27	0 RUNNING	242	224
9/5/2018 15:37	134.52	4.09	55	370.9	560	530	279.85	0 RUNNING	242	224
9/5/2018 15:37	134.73	4.09	54.9	370.8	560	529	278.72	0 RUNNING	242	224
9/5/2018 15:37	134.35	4.09	55	371	560	528	276.69	0 RUNNING	242	224
9/5/2018 15:37	134.79	4.09	55.1	371.1	560	530	279.68	0 RUNNING	242	224
9/5/2018 15:37	134.49	4.09	55	371.1	560	529	279.48	0 RUNNING	242	224
9/5/2018 15:37	134.96	4.09	55	371	560	531	277.83	0 RUNNING	242	224
9/5/2018 15:37	134.67	4.1	55.2	371.2	560	534	279.48	0 RUNNING	242	224
9/5/2018 15:37	134.93	4.1	55.1	371.1	560	534	279.03	0 RUNNING	242	224
9/5/2018 15:37	134.95	4.11	55.2	371.3	560	536	279.29	0 RUNNING	242	224
9/5/2018 15:37	134.58	4.11	55.2	371.4	560	535	279.36	0 RUNNING	242	224
9/5/2018 15:37	134.21	4.11	55.3	371.4	560	535	278.86	0 RUNNING	242	224
9/5/2018 15:37	135.18	4.11	55.3	371.4	560	532	279.65	0 RUNNING	242	224
9/5/2018 15:37	134.3	4.1	55.1	371.2	560	530	277.42	0 RUNNING	242	224
9/5/2018 15:37	135.05	4.1	55.2	371.3	560	530	279.65	0 RUNNING	242	224
9/5/2018 15:37	133.5	4.1	55	371.2	560	527	276.5	0 RUNNING	242	224
9/5/2018 15:37	135.01	4.11	55.3	371.3	560	531	277.08	0 RUNNING	242	224
9/5/2018 15:37	134.74	4.11	55	371.2	560	529	280.33	0 RUNNING	242	224
9/5/2018 15:37	134.7	4.11	55.2	371.3	560	532	277.32	0 RUNNING	242	224
9/5/2018 15:37	134.58	4.12	55.3	371.5	560	533	278.02	0 RUNNING	242	224
9/5/2018 15:37	135.26	4.12	55.4	371.6	560	535	280.3	0 RUNNING	242	224
9/5/2018 15:37	134.48	4.11	55.3	371.5	560	535	278.04	0 RUNNING	242	224
9/5/2018 15:37	134.86	4.12	55.3	371.5	560	535	278.6	0 RUNNING	242	224
9/5/2018 15:37	134.49	4.12	55.3	371.6	560	535	280.31	0 RUNNING	242	224
9/5/2018 15:37	135.08	4.12	55.4	371.6	560	534	279.8	0 RUNNING	242	224
9/5/2018 15:37	134.9	4.12	55.4	371.6	560	531	279.44	0 RUNNING	242	224

9/5/2018 15:37	134.96	4.12	55.3	371.5	560	530	279.29	0 RUNNING	242	224
9/5/2018 15:37	134.92	4.12	55.4	371.7	560	530	281.38	0 RUNNING	242	224
9/5/2018 15:37	135.13	4.12	55.4	371.6	560	529	277.95	0 RUNNING	242	224
9/5/2018 15:37	134.5	4.12	55.4	371.6	560	531	281.67	0 RUNNING	242	224
9/5/2018 15:37	134.8	4.12	55.4	371.6	560	532	279.97	0 RUNNING	242	224
9/5/2018 15:37	134.78	4.12	55.3	371.5	560	533	280.14	0 RUNNING	242	224
9/5/2018 15:37	134.63	4.12	55.4	371.7	560	535	278.62	0 RUNNING	242	224
9/5/2018 15:37	135.21	4.13	55.5	371.9	560	537	281.34	0 RUNNING	242	224
9/5/2018 15:37	134.69	4.12	55.4	371.7	560	537	279.84	0 RUNNING	242	224
9/5/2018 15:37	134.96	4.12	55.3	371.6	560	536	279.8	0 RUNNING	242	224
9/5/2018 15:37	134.71	4.13	55.4	371.7	560	535	279.03	0 RUNNING	242	224
9/5/2018 15:37	134.93	4.12	55.4	371.7	560	533	280.13	0 RUNNING	242	224
9/5/2018 15:37	134.56	4.13	55.4	371.8	560	531	280.01	0 RUNNING	242	224
9/5/2018 15:37	134.38	4.13	55.5	371.8	560	530	279.84	0 RUNNING	242	224
9/5/2018 15:37	134.91	4.13	55.5	371.8	560	531	280.06	0 RUNNING	242	224
9/5/2018 15:37	134.46	4.13	55.5	371.8	560	532	278.77	0 RUNNING	242	224
9/5/2018 15:37	135.16	4.13	55.5	371.8	560	534	281.02	0 RUNNING	242	224
9/5/2018 15:37	134.84	4.13	55.5	371.9	560	534	281.48	0 RUNNING	242	224
9/5/2018 15:37	134.56	4.13	55.6	371.9	560	537	280.04	0 RUNNING	242	224
9/5/2018 15:37	135.21	4.13	55.5	371.8	560	537	280.86	0 RUNNING	242	224
9/5/2018 15:37	134.48	4.12	55.3	371.6	560	537	279.25	0 RUNNING	242	224
9/5/2018 15:37	134.54	4.13	55.4	371.8	560	537	279.03	0 RUNNING	242	224
9/5/2018 15:37	135.07	4.13	55.5	371.8	560	535	279.97	0 RUNNING	242	224
9/5/2018 15:37	135.31	4.13	55.5	371.9	560	533	279.75	0 RUNNING	242	224
9/5/2018 15:37	134.93	4.13	55.5	371.9	560	532	281.44	0 RUNNING	242	224
9/5/2018 15:37	134.71	4.13	55.4	371.8	560	531	280.79	0 RUNNING	242	224
9/5/2018 15:37	134.82	4.14	55.6	372.1	560	530	280.02	0 RUNNING	242	224
9/5/2018 15:37	134.64	4.13	55.5	371.8	560	532	280.31	0 RUNNING	242	224
9/5/2018 15:37	135.09	4.13	55.5	371.8	560	531	282.32	0 RUNNING	242	224
9/5/2018 15:38	133.79	4.14	55.6	372	560	534	278.91	0 RUNNING	242	224
9/5/2018 15:38	135.39	4.14	55.6	372	560	536	281.48	0 RUNNING	242	224
9/5/2018 15:38	134.7	4.14	55.6	372	560	537	279.49	0 RUNNING	242	224
9/5/2018 15:38	134.18	4.14	55.5	372	560	536	280.57	0 RUNNING	242	224
9/5/2018 15:38	134.64	4.14	55.6	372	560	537	280.09	0 RUNNING	242	224
9/5/2018 15:38	135.02	4.14	55.5	371.9	560	535	280.14	0 RUNNING	242	224
9/5/2018 15:38	134.53	4.14	55.6	372	560	534	280.69	0 RUNNING	242	224
9/5/2018 15:38	134.73	4.14	55.6	372	560	531	281.07	0 RUNNING	242	224
9/5/2018 15:38	134.45	4.14	55.6	372	560	531	278.55	0 RUNNING	242	224
9/5/2018 15:38	134.71	4.13	55.5	371.8	560	530	280.59	0 RUNNING	242	224
9/5/2018 15:38	135.04	4.14	55.5	372	560	530	280.61	0 RUNNING	242	224
9/5/2018 15:38	134.88	4.14	55.6	372	560	533	279.46	0 RUNNING	242	224
9/5/2018 15:38	135.01	4.14	55.7	372.1	560	534	280.62	0 RUNNING	242	224
9/5/2018 15:38	135.29	4.14	55.5	371.9	560	535	282.32	0 RUNNING	242	224
9/5/2018 15:38	134.65	4.14	55.7	372.1	560	536	277.99	0 RUNNING	242	224
9/5/2018 15:38	134.74	4.14	55.7	372.1	560	537	280.21	0 RUNNING	242	224
9/5/2018 15:38	135.19	4.14	55.6	372.1	560	536	282.98	0 RUNNING	242	224
9/5/2018 15:38	135.05	4.14	55.7	372.1	560	535	280.4	0 RUNNING	242	224
9/5/2018 15:38	134.23	4.14	55.6	372	560	533	279.24	0 RUNNING	242	224
9/5/2018 15:38	134.84	4.14	55.7	373.9	560	532	280.71	0 RUNNING	242	224
9/5/2018 15:38	134.73	4.15	55.8	374	560	531	280.42	0 RUNNING	242	224
9/5/2018 15:38	134.81	4.14	55.7	373.8	560	531	280.9	0 RUNNING	242	224
9/5/2018 15:38	134.75	4.14	55.6	373.7	560	530	282.44	0 RUNNING	242	224
9/5/2018 15:38	135.06	4.14	55.6	373.8	560	531	281.48	0 RUNNING	242	224
9/5/2018 15:38	134.72	4.14	55.7	373.9	560	533	279.61	0 RUNNING	242	224
9/5/2018 15:38	134.35	4.14	55.7	373.9	560	534	280.95	0 RUNNING	242	224
9/5/2018 15:38	134.63	4.14	55.6	373.8	560	536	278.69	0 RUNNING	242	224
9/5/2018 15:38	134.82	4.14	55.7	373.9	560	536	280.52	0 RUNNING	242	224
9/5/2018 15:38	134.75	4.14	55.7	373.9	560	536	281.63	0 RUNNING	242	224
9/5/2018 15:38	134.81	4.14	55.7	372.1	560	535	278.89	0 RUNNING	242	224
9/5/2018 15:38	134.58	4.14	55.6	372	560	533	278.91	0 RUNNING	242	224
9/5/2018 15:38	134.55	4.14	55.6	372	560	531	280.57	0 RUNNING	242	224
9/5/2018 15:38	134.82	4.14	55.7	372	560	530	279	0 RUNNING	242	224
9/5/2018 15:38	134.88	4.14	55.7	372.1	560	530	280.54	0 RUNNING	242	224
9/5/2018 15:38	134.69	4.13	55.5	371.8	560	529	279.22	0 RUNNING	242	224
9/5/2018 15:38	134.9	4.14	55.6	372	560	529	280.23	0 RUNNING	242	224

9/5/2018 15:38	134.62	4.14	55.6	372	560	532	280.91	0 RUNNING	242	224
9/5/2018 15:38	134.2	4.14	55.7	372.1	560	534	279.75	0 RUNNING	242	224
9/5/2018 15:38	134.92	4.13	55.6	371.9	560	535	280.26	0 RUNNING	242	224
9/5/2018 15:38	134.63	4.13	55.5	373.6	560	536	280.07	0 RUNNING	242	224
9/5/2018 15:38	135.18	4.14	55.7	373.8	560	536	279.24	0 RUNNING	242	224
9/5/2018 15:38	135.18	4.14	55.7	373.8	560	536	279.24	0 RUNNING	242	224
9/5/2018 15:38	134.3	4.14	55.7	373.9	560	535	278.69	0 RUNNING	242	224
9/5/2018 15:38	135.16	4.15	55.8	374	560	533	280.78	0 RUNNING	242	224
9/5/2018 15:38	134.58	4.14	55.7	373.8	560	531	279.32	0 RUNNING	242	224
9/5/2018 15:38	134.61	4.14	55.7	373.9	560	530	279.2	0 RUNNING	242	224
9/5/2018 15:38	134.91	4.14	55.7	373.8	560	529	279.12	0 RUNNING	242	224
9/5/2018 15:38	135.13	4.14	55.7	373.9	560	528	278.88	0 RUNNING	242	224
9/5/2018 15:38	134.3	4.14	55.8	373.9	560	531	279.58	0 RUNNING	242	224
9/5/2018 15:38	135.14	4.15	55.8	374	560	531	281.26	0 RUNNING	242	224
9/5/2018 15:38	134.56	4.15	55.7	373.9	560	533	280.4	0 RUNNING	242	224
9/5/2018 15:38	135.11	4.14	55.7	373.8	560	533	280.02	0 RUNNING	242	224
9/5/2018 15:38	134.66	4.14	55.7	373.8	560	535	278.55	0 RUNNING	242	224
9/5/2018 15:38	134.21	4.14	55.7	373.9	560	534	279.63	0 RUNNING	242	224
9/5/2018 15:38	135.53	4.14	55.8	374	560	535	281	0 RUNNING	242	224
9/5/2018 15:38	135.35	4.14	55.7	373.8	560	532	281.82	0 RUNNING	242	224
9/5/2018 15:38	135.06	4.14	55.7	373.9	560	532	280.21	0 RUNNING	242	224
9/5/2018 15:38	134.31	4.14	55.7	373.8	560	529	278.06	0 RUNNING	242	224
9/5/2018 15:38	134.9	4.14	55.7	373.9	560	529	280.21	0 RUNNING	242	224
9/5/2018 15:39	134.46	4.14	55.6	373.7	560	529	278.55	0 RUNNING	242	224
9/5/2018 15:39	135.23	4.14	55.8	373.9	560	530	278.86	0 RUNNING	242	224
9/5/2018 15:39	135.06	4.15	55.9	374.1	560	531	283.09	0 RUNNING	242	224
9/5/2018 15:39	135.21	4.14	55.6	373.7	560	531	279.82	0 RUNNING	242	224
9/5/2018 15:39	134.2	4.15	55.8	374	560	533	277.37	0 RUNNING	242	224
9/5/2018 15:39	135.14	4.14	55.8	374	560	535	280.47	0 RUNNING	242	224
9/5/2018 15:39	134.9	4.14	55.7	373.9	560	534	279.15	0 RUNNING	242	224
9/5/2018 15:39	134.48	4.14	55.7	373.8	560	534	280.71	0 RUNNING	242	224
9/5/2018 15:39	134.82	4.14	55.7	373.9	560	532	279.85	0 RUNNING	242	224
9/5/2018 15:39	134.55	4.13	55.6	373.7	560	530	277.25	0 RUNNING	242	224
9/5/2018 15:39	135.38	4.15	55.9	374.1	560	530	281.51	0 RUNNING	242	224
9/5/2018 15:39	134.55	4.14	55.7	373.9	560	528	281.05	0 RUNNING	242	224
9/5/2018 15:39	134.29	4.15	55.8	374.1	560	529	279.15	0 RUNNING	242	224
9/5/2018 15:39	135.36	4.14	55.7	373.9	560	528	279.49	0 RUNNING	242	224
9/5/2018 15:39	134.53	4.15	55.9	374.1	560	529	279.9	0 RUNNING	242	224
9/5/2018 15:39	134.16	4.15	55.8	374	560	530	279.37	0 RUNNING	242	224
9/5/2018 15:39	134.67	4.14	55.8	374	560	533	279.48	0 RUNNING	242	224
9/5/2018 15:39	134.58	4.14	55.8	373.9	560	535	278.24	0 RUNNING	242	224
9/5/2018 15:39	134.11	4.14	55.7	373.9	560	534	277.7	0 RUNNING	242	224
9/5/2018 15:39	134.56	4.14	55.8	374	560	533	278.72	0 RUNNING	242	224
9/5/2018 15:39	134.61	4.14	55.7	373.9	560	532	276.22	0 RUNNING	242	224
9/5/2018 15:39	134.34	4.14	55.8	373.9	560	531	279.3	0 RUNNING	242	224
9/5/2018 15:39	134.89	4.14	55.7	373.8	560	528	278.77	0 RUNNING	242	224
9/5/2018 15:39	134.45	4.14	55.7	373.8	560	528	277.58	0 RUNNING	242	224
9/5/2018 15:39	135.24	4.15	56	374.2	560	527	280.23	0 RUNNING	242	224
9/5/2018 15:39	135.31	4.15	55.8	374.1	560	528	280.62	0 RUNNING	242	224
9/5/2018 15:39	135	4.14	55.8	373.9	560	529	280.61	0 RUNNING	242	224
9/5/2018 15:39	134.66	4.14	55.8	374	560	530	278.06	0 RUNNING	242	224
9/5/2018 15:39	134.73	4.14	55.7	373.8	560	532	277.66	0 RUNNING	242	224
9/5/2018 15:39	134.5	4.14	55.8	373.9	560	533	278.76	0 RUNNING	242	224
9/5/2018 15:39	134.71	4.14	55.7	373.8	560	533	277.11	0 RUNNING	242	224
9/5/2018 15:39	134.77	4.14	55.8	373.9	560	533	278.28	0 RUNNING	242	224
9/5/2018 15:39	135	4.13	55.7	373.8	560	532	279.66	0 RUNNING	242	224
9/5/2018 15:39	134.41	4.14	55.7	373.9	560	529	277.92	0 RUNNING	242	224
9/5/2018 15:39	134.83	4.14	55.7	373.9	560	528	277.78	0 RUNNING	242	224
9/5/2018 15:39	135.39	4.13	55.7	373.7	560	527	279.29	0 RUNNING	242	224
9/5/2018 15:39	135.03	4.14	55.8	374	560	526	279.65	0 RUNNING	242	224
9/5/2018 15:39	134.82	4.14	55.8	373.9	560	527	279.94	0 RUNNING	242	224
9/5/2018 15:39	134.22	4.14	55.7	373.9	560	527	276.74	0 RUNNING	242	224
9/5/2018 15:39	134.43	4.13	55.6	373.7	560	529	276.82	0 RUNNING	242	224
9/5/2018 15:39	134.84	4.14	55.8	373.9	560	530	280.01	0 RUNNING	242	224
9/5/2018 15:39	134.32	4.14	55.7	373.9	560	530	278.26	0 RUNNING	242	224

9/5/2018 15:39	134.75	4.14	55.8	373.9	560	532	277.32	0 RUNNING	242	224
9/5/2018 15:39	135.05	4.13	55.5	373.5	560	531	278.71	0 RUNNING	242	224
9/5/2018 15:39	134.82	4.13	55.7	373.7	560	531	278.98	0 RUNNING	242	224
9/5/2018 15:39	134.13	4.14	55.6	373.8	560	527	274	0 RUNNING	242	224
9/5/2018 15:39	134.46	4.14	55.8	373.9	560	527	275.66	0 RUNNING	242	224
9/5/2018 15:39	134.95	4.14	55.7	373.8	560	524	280.4	0 RUNNING	242	224
9/5/2018 15:39	134.64	4.14	55.8	373.9	560	525	276.38	0 RUNNING	242	224
9/5/2018 15:39	135.39	4.14	55.8	374	560	524	279.15	0 RUNNING	242	224
9/5/2018 15:39	134.26	4.14	55.7	373.9	560	526	275.21	0 RUNNING	242	224
9/5/2018 15:39	134.89	4.14	55.8	373.9	560	529	277.88	0 RUNNING	242	224
9/5/2018 15:39	134.28	4.14	55.7	373.8	560	529	277.95	0 RUNNING	242	224
9/5/2018 15:39	135.27	4.14	55.8	373.9	560	531	280.42	0 RUNNING	242	224
9/5/2018 15:39	134.99	4.14	55.7	373.9	560	532	278.41	0 RUNNING	242	224
9/5/2018 15:39	134.42	4.14	55.7	373.8	560	531	277.7	0 RUNNING	242	224
9/5/2018 15:39	135.19	4.15	55.9	374	560	531	278.14	0 RUNNING	242	224
9/5/2018 15:39	135.39	4.14	55.8	374	560	530	279.89	0 RUNNING	242	224
9/5/2018 15:39	134.94	4.14	55.7	373.8	560	527	279.8	0 RUNNING	242	224
9/5/2018 15:40	134.71	4.14	55.6	373.7	560	525	276.31	0 RUNNING	242	224
9/5/2018 15:40	135.08	4.13	55.7	373.8	560	526	277.37	0 RUNNING	242	224
9/5/2018 15:40	134.2	4.13	55.6	373.7	560	526	278.45	0 RUNNING	242	224
9/5/2018 15:40	134.58	4.13	55.6	373.7	560	526	277.08	0 RUNNING	242	224
9/5/2018 15:40	134.82	4.14	55.7	373.8	560	528	277.63	0 RUNNING	242	224
9/5/2018 15:40	134.16	4.14	55.8	373.9	560	530	277.39	0 RUNNING	242	224
9/5/2018 15:40	134.57	4.14	55.8	373.9	560	529	278.81	0 RUNNING	242	224
9/5/2018 15:40	135.02	4.15	55.9	374.1	560	530	278.12	0 RUNNING	242	224
9/5/2018 15:40	134.37	4.13	55.7	373.8	560	529	278.07	0 RUNNING	242	224
9/5/2018 15:40	134.46	4.14	55.7	373.8	560	527	278.24	0 RUNNING	242	224
9/5/2018 15:40	135.39	4.13	55.7	373.8	560	525	279.3	0 RUNNING	242	224
9/5/2018 15:40	134.35	4.14	55.7	373.8	560	523	278.67	0 RUNNING	242	224
9/5/2018 15:40	134.59	4.13	55.7	373.7	560	519	277.11	0 RUNNING	242	224
9/5/2018 15:40	135.01	4.14	55.9	374	560	517	279.72	0 RUNNING	242	224
9/5/2018 15:40	134.32	4.14	55.7	373.8	560	514	277.2	0 RUNNING	242	224
9/5/2018 15:40	134.75	4.13	55.7	373.7	560	511	277.46	0 RUNNING	242	224
9/5/2018 15:40	134.41	4.14	55.7	373.9	560	509	277.01	0 RUNNING	242	224
9/5/2018 15:40	135.19	4.13	55.7	373.8	560	506	278.3	0 RUNNING	242	224
9/5/2018 15:40	134.39	4.14	55.8	374	560	502	277.39	0 RUNNING	242	224
9/5/2018 15:40	134.29	4.14	55.7	373.8	560	498	278.96	0 RUNNING	242	224
9/5/2018 15:40	134.21	4.13	55.7	373.8	560	492	277.95	0 RUNNING	242	224
9/5/2018 15:40	135.17	4.13	55.6	373.7	560	487	277.75	0 RUNNING	242	224
9/5/2018 15:40	134.79	4.13	55.6	373.6	560	483	277.3	0 RUNNING	242	224
9/5/2018 15:40	134.8	4.13	55.6	373.7	560	476	278.19	0 RUNNING	242	224
9/5/2018 15:40	134.56	4.12	55.5	373.4	560	470	277.23	0 RUNNING	242	224
9/5/2018 15:40	134.89	4.13	55.6	373.7	560	467	276.99	0 RUNNING	242	224
9/5/2018 15:40	135.21	4.11	55.4	373.3	560	466	277.41	0 RUNNING	242	224
9/5/2018 15:40	135.28	4.11	55.3	373.2	560	462	278.81	0 RUNNING	242	224
9/5/2018 15:40	135.36	4.12	55.5	373.4	560	463	277.75	0 RUNNING	242	224
9/5/2018 15:40	134.82	4.13	55.7	373.7	560	462	281.41	0 RUNNING	242	224
9/5/2018 15:40	135.03	4.13	55.6	373.6	560	462	279.08	0 RUNNING	242	224
9/5/2018 15:40	134.4	4.12	55.5	373.5	560	464	277.15	0 RUNNING	242	224
9/5/2018 15:40	135.09	4.12	55.5	373.4	560	462	279.44	0 RUNNING	242	224
9/5/2018 15:40	134.26	4.11	55.4	373.2	560	461	274.91	0 RUNNING	242	224
9/5/2018 15:40	135.03	4.11	55.5	373.3	560	460	277.94	0 RUNNING	242	224
9/5/2018 15:40	134.51	4.11	55.4	373.3	560	458	278.77	0 RUNNING	242	224
9/5/2018 15:40	135.29	4.11	55.4	373.2	560	464	278.47	0 RUNNING	242	224
9/5/2018 15:40	134.64	4.11	55.4	373.2	560	466	277.63	0 RUNNING	242	224
9/5/2018 15:40	134.87	4.11	55.4	373.3	560	469	277.71	0 RUNNING	242	224
9/5/2018 15:40	134.94	4.11	55.5	373.3	560	474	278.47	0 RUNNING	242	224
9/5/2018 15:40	134.74	4.12	55.5	373.4	560	477	278.95	0 RUNNING	242	224
9/5/2018 15:40	134.86	4.11	55.3	373.2	560	480	279.87	0 RUNNING	242	224
9/5/2018 15:40	134.88	4.11	55.3	373.2	560	485	277.99	0 RUNNING	242	224
9/5/2018 15:40	134.85	4.11	55.4	373.2	560	487	278.33	0 RUNNING	242	224
9/5/2018 15:40	134.61	4.11	55.5	373.3	560	490	278.41	0 RUNNING	242	224
9/5/2018 15:40	134.31	4.11	55.3	373.2	560	491	276.52	0 RUNNING	242	224
9/5/2018 15:40	134.53	4.1	55.3	373.1	560	491	277.47	0 RUNNING	242	224
9/5/2018 15:40	134.52	4.11	55.4	373.2	560	491	277.15	0 RUNNING	242	224

9/5/2018 15:40	135.07	4.1	55.3	373.1	560	491	278.5	0 RUNNING	242	224
9/5/2018 15:40	134.41	4.1	55.1	372.9	560	490	275.61	0 RUNNING	242	224
9/5/2018 15:40	135.12	4.1	55.3	373	560	492	278.89	0 RUNNING	242	224
9/5/2018 15:40	134.48	4.09	55.1	372.8	560	492	276.79	0 RUNNING	242	224
9/5/2018 15:40	135	4.1	55.3	373	560	494	277.8	0 RUNNING	242	224
9/5/2018 15:40	133.35	4.1	55.2	373	560	496	274.24	0 RUNNING	242	224
9/5/2018 15:40	134.58	4.1	55.3	373.1	560	501	275.52	0 RUNNING	242	224
9/5/2018 15:40	134.84	4.1	55.3	373.1	560	506	278.83	0 RUNNING	242	224
9/5/2018 15:40	134.48	4.1	55.2	372.9	560	512	278.19	0 RUNNING	242	224
9/5/2018 15:40	134.27	4.1	55.3	373.1	560	517	277.42	0 RUNNING	242	224
9/5/2018 15:40	135.31	4.1	55.3	373	560	521	278.64	0 RUNNING	242	224
9/5/2018 15:41	134.02	4.1	55.2	373	560	519	276.1	0 RUNNING	242	224
9/5/2018 15:41	135.25	4.1	55.2	373.1	560	520	278.02	0 RUNNING	242	224
9/5/2018 15:41	135.29	4.1	55.3	373.1	560	521	276.81	0 RUNNING	242	224
9/5/2018 15:41	134.93	4.1	55.2	373	560	521	278.67	0 RUNNING	242	224
9/5/2018 15:41	134.15	4.09	54.6	370.7	560	518	271.76	0 RUNNING	242	224
9/5/2018 15:41	134.86	4.1	55.2	371.2	560	522	278.65	0 RUNNING	242	224
9/5/2018 15:41	134.65	4.1	55.1	371.2	560	525	277.85	0 RUNNING	242	224
9/5/2018 15:41	134.7	4.1	55.2	371.2	560	527	277.58	0 RUNNING	242	224
9/5/2018 15:41	135.05	4.1	55.2	371.3	560	530	277.85	0 RUNNING	242	224
9/5/2018 15:41	134.83	4.09	55.1	371.1	560	530	278.28	0 RUNNING	242	224
9/5/2018 15:41	134.32	4.1	55.2	371.3	560	529	276.21	0 RUNNING	242	224
9/5/2018 15:41	134.62	4.1	55.3	371.4	560	530	277.25	0 RUNNING	242	224
9/5/2018 15:41	134.58	4.11	55.2	371.3	560	529	276.34	0 RUNNING	242	224
9/5/2018 15:41	134.97	4.1	55.2	371.2	560	527	276.52	0 RUNNING	242	224
9/5/2018 15:41	134.89	4.11	55.3	373.1	560	527	277.97	0 RUNNING	242	224
9/5/2018 15:41	134.98	4.1	55.2	372.9	560	526	279.32	0 RUNNING	242	224
9/5/2018 15:41	134.72	4.1	55.2	373	560	526	277.88	0 RUNNING	242	224
9/5/2018 15:41	134.85	4.09	55.1	372.8	560	527	278.19	0 RUNNING	242	224
9/5/2018 15:41	135.34	4.1	55.2	373	560	527	279.75	0 RUNNING	242	224
9/5/2018 15:41	134.56	4.1	55.1	372.9	560	531	276.19	0 RUNNING	242	224
9/5/2018 15:41	134.57	4.1	55.2	373	560	532	277.32	0 RUNNING	242	224
9/5/2018 15:41	134.6	4.1	55.3	373.1	560	534	280.83	0 RUNNING	242	224
9/5/2018 15:41	134.41	4.11	55.3	373.1	560	533	277.54	0 RUNNING	242	224
9/5/2018 15:41	135.14	4.11	55.4	373.3	560	533	279.6	0 RUNNING	242	224
9/5/2018 15:41	134.38	4.11	55.2	373.1	560	531	277.1	0 RUNNING	242	224
9/5/2018 15:41	135.15	4.11	55.3	373.2	560	529	277.58	0 RUNNING	242	224
9/5/2018 15:41	134.85	4.1	55.2	373	560	529	279.42	0 RUNNING	242	224
9/5/2018 15:41	134.18	4.1	55.2	373	560	528	277.35	0 RUNNING	242	224
9/5/2018 15:41	134.35	4.11	55.4	373.2	560	528	277.85	0 RUNNING	242	224
9/5/2018 15:41	134.69	4.11	55.3	373.2	560	528	276.82	0 RUNNING	242	224
9/5/2018 15:41	134.82	4.11	55.4	373.2	560	530	280.31	0 RUNNING	242	224
9/5/2018 15:41	134.45	4.12	55.4	373.3	560	531	278.23	0 RUNNING	242	224
9/5/2018 15:41	134.39	4.11	55.2	373.1	560	533	277.88	0 RUNNING	242	224
9/5/2018 15:41	134.68	4.11	55.2	373.1	560	533	278.35	0 RUNNING	242	224
9/5/2018 15:41	134.7	4.11	55.2	373.1	560	535	279.39	0 RUNNING	242	224
9/5/2018 15:41	135.31	4.11	55.3	373.2	560	533	279.84	0 RUNNING	242	224
9/5/2018 15:41	134.78	4.11	55.3	373.1	560	533	279.2	0 RUNNING	242	224
9/5/2018 15:41	135.3	4.11	55.3	373.2	560	531	277.49	0 RUNNING	242	224
9/5/2018 15:41	134.91	4.11	55.3	373.2	560	529	279.99	0 RUNNING	242	224
9/5/2018 15:41	134.65	4.11	55.4	373.3	560	528	278	0 RUNNING	242	224
9/5/2018 15:41	134.65	4.11	55.4	373.3	560	528	278.06	0 RUNNING	242	224
9/5/2018 15:41	134.54	4.11	55.3	373.2	560	528	278.06	0 RUNNING	242	224
9/5/2018 15:41	134.54	4.12	55.4	373.3	560	530	278.55	0 RUNNING	242	224
9/5/2018 15:41	135.29	4.12	55.4	373.4	560	531	279.97	0 RUNNING	242	224
9/5/2018 15:41	134.83	4.12	55.5	373.5	560	533	278.71	0 RUNNING	242	224
9/5/2018 15:41	135.2	4.13	55.5	373.5	560	535	282.28	0 RUNNING	242	224
9/5/2018 15:41	134.93	4.12	55.4	373.5	560	535	280.04	0 RUNNING	242	224
9/5/2018 15:41	134.32	4.12	55.3	373.3	560	536	278.88	0 RUNNING	242	224
9/5/2018 15:41	134.53	4.13	55.6	373.7	560	535	279.22	0 RUNNING	242	224
9/5/2018 15:41	135.16	4.13	55.5	373.6	560	534	280.71	0 RUNNING	242	224
9/5/2018 15:41	134.58	4.12	55.4	373.4	560	532	278.19	0 RUNNING	242	224
9/5/2018 15:41	135.69	4.12	55.4	373.4	560	531	282.35	0 RUNNING	242	224
9/5/2018 15:41	134.69	4.12	55.3	373.3	560	528	280.02	0 RUNNING	242	224
9/5/2018 15:41	134.52	4.12	55.4	373.4	560	530	278.64	0 RUNNING	242	224

9/5/2018 15:41	134.65	4.13	55.6	373.6	560	530	280.01	0 RUNNING	242	224
9/5/2018 15:41	134.8	4.12	55.3	373.3	560	531	280.23	0 RUNNING	242	224
9/5/2018 15:41	134.71	4.12	55.3	373.3	560	532	279.18	0 RUNNING	242	224
9/5/2018 15:41	134.58	4.12	55.4	373.4	560	535	278.67	0 RUNNING	242	224
9/5/2018 15:41	134.73	4.12	55.4	373.4	560	536	279.65	0 RUNNING	242	224
9/5/2018 15:42	134.42	4.13	55.6	373.7	560	536	278.41	0 RUNNING	242	224
9/5/2018 15:42	134.83	4.13	55.6	373.7	560	535	280.52	0 RUNNING	242	224
9/5/2018 15:42	135.42	4.12	55.5	373.5	560	535	281.6	0 RUNNING	242	224
9/5/2018 15:42	135.2	4.13	55.6	373.6	560	533	281.02	0 RUNNING	242	224
9/5/2018 15:42	134.78	4.13	55.5	373.6	560	532	276.79	0 RUNNING	242	224
9/5/2018 15:42	135.59	4.13	55.6	373.6	560	531	282.5	0 RUNNING	242	224
9/5/2018 15:42	134.73	4.13	55.6	373.7	560	531	281.8	0 RUNNING	242	224
9/5/2018 15:42	134.42	4.14	55.5	373.6	560	529	277.94	0 RUNNING	242	224
9/5/2018 15:42	134.51	4.14	55.6	373.8	560	531	279.27	0 RUNNING	242	224
9/5/2018 15:42	134.8	4.12	55.4	373.4	560	533	278.95	0 RUNNING	242	224
9/5/2018 15:42	134.53	4.14	55.6	373.8	560	535	278.95	0 RUNNING	242	224
9/5/2018 15:42	134.95	4.13	55.6	373.7	560	536	278.47	0 RUNNING	242	224
9/5/2018 15:42	134.72	4.13	55.5	373.6	560	536	280.28	0 RUNNING	242	224
9/5/2018 15:42	134.84	4.13	55.5	373.6	560	536	280.54	0 RUNNING	242	224
9/5/2018 15:42	135.1	4.12	55.4	373.4	560	535	279.58	0 RUNNING	242	224
9/5/2018 15:42	134.42	4.13	55.6	373.7	560	533	279.84	0 RUNNING	242	224
9/5/2018 15:42	134.92	4.13	55.5	373.5	560	532	279.15	0 RUNNING	242	224
9/5/2018 15:42	134.43	4.13	55.5	373.6	560	530	278.74	0 RUNNING	242	224
9/5/2018 15:42	134.75	4.13	55.6	373.6	560	529	280.72	0 RUNNING	242	224
9/5/2018 15:42	134.93	4.13	55.5	373.6	560	530	281.39	0 RUNNING	242	224
9/5/2018 15:42	134.59	4.14	55.6	373.8	560	531	279.17	0 RUNNING	242	224
9/5/2018 15:42	135.04	4.14	55.6	373.7	560	532	279.18	0 RUNNING	242	224
9/5/2018 15:42	134.49	4.14	55.7	373.9	560	534	280.07	0 RUNNING	242	224
9/5/2018 15:42	134.86	4.15	55.7	373.9	560	536	281.8	0 RUNNING	242	224
9/5/2018 15:42	134.54	4.14	55.6	373.8	560	537	279.1	0 RUNNING	242	224
9/5/2018 15:42	134.86	4.13	55.6	373.7	560	537	280.02	0 RUNNING	242	224
9/5/2018 15:42	134.2	4.14	55.6	373.7	560	536	279.08	0 RUNNING	242	224
9/5/2018 15:42	134.94	4.13	55.4	373.6	560	533	278.88	0 RUNNING	242	224
9/5/2018 15:42	134.5	4.14	55.6	373.8	560	532	278.26	0 RUNNING	242	224
9/5/2018 15:42	134.58	4.14	55.7	373.9	560	531	279.42	0 RUNNING	242	224
9/5/2018 15:42	134.83	4.14	55.6	373.7	560	530	280.72	0 RUNNING	242	224
9/5/2018 15:42	134.68	4.14	55.7	373.9	560	530	280.91	0 RUNNING	242	224
9/5/2018 15:42	134.69	4.14	55.6	373.8	560	531	279.53	0 RUNNING	242	224
9/5/2018 15:42	135.33	4.14	55.6	373.7	560	533	280.83	0 RUNNING	242	224
9/5/2018 15:42	134.79	4.15	55.7	374	560	535	280.88	0 RUNNING	242	224
9/5/2018 15:42	135.1	4.14	55.3	373.6	560	532	276.86	0 RUNNING	242	224
9/5/2018 15:42	134.58	4.15	55.7	372.2	560	537	280.61	0 RUNNING	242	224
9/5/2018 15:42	134.43	4.15	55.8	372.4	560	537	278.98	0 RUNNING	242	224
9/5/2018 15:42	134.95	4.15	55.8	372.3	560	537	278.5	0 RUNNING	242	224
9/5/2018 15:42	135.04	4.15	55.8	372.3	560	535	280.91	0 RUNNING	242	224
9/5/2018 15:42	134.15	4.15	55.7	372.2	560	533	279.24	0 RUNNING	242	224
9/5/2018 15:42	134.91	4.16	55.9	372.5	560	532	281.7	0 RUNNING	242	224
9/5/2018 15:42	134.35	4.16	55.8	372.5	560	530	276.93	0 RUNNING	242	224
9/5/2018 15:42	134.78	4.16	55.9	372.5	560	531	281.34	0 RUNNING	242	224
9/5/2018 15:42	134.58	4.15	55.7	372.2	560	530	278.76	0 RUNNING	242	224
9/5/2018 15:42	134.52	4.15	55.8	372.3	560	532	280.43	0 RUNNING	242	224
9/5/2018 15:42	134.94	4.15	55.7	374	560	535	279.99	0 RUNNING	242	224
9/5/2018 15:42	135.08	4.15	55.7	373.9	560	536	281.43	0 RUNNING	242	224
9/5/2018 15:42	134.04	4.15	55.8	374.1	560	536	278.18	0 RUNNING	242	224
9/5/2018 15:42	134.92	4.15	55.8	374.1	560	537	280.67	0 RUNNING	242	224
9/5/2018 15:42	134.92	4.16	55.8	374.1	560	536	279.49	0 RUNNING	242	224
9/5/2018 15:42	134.69	4.15	55.8	374	560	535	281.03	0 RUNNING	242	224
9/5/2018 15:42	135.39	4.16	55.8	374.1	560	533	280.19	0 RUNNING	242	224
9/5/2018 15:42	134.78	4.16	55.8	374.1	560	531	283.03	0 RUNNING	242	224
9/5/2018 15:42	135.49	4.15	55.6	373.9	560	529	278.88	0 RUNNING	242	224
9/5/2018 15:42	134.88	4.16	55.9	374.2	560	531	281.14	0 RUNNING	242	224
9/5/2018 15:42	134.39	4.16	55.8	374.1	560	530	279.05	0 RUNNING	242	224
9/5/2018 15:42	134.98	4.16	55.9	374.2	560	533	281.12	0 RUNNING	242	224
9/5/2018 15:42	135.12	4.16	55.8	374.2	560	534	280.71	0 RUNNING	242	224
9/5/2018 15:43	134.43	4.16	55.8	374.2	560	535	278	0 RUNNING	242	224

9/5/2018 15:43	134.45	4.16	55.8	374.1	560	535	277.49	0 RUNNING	242	224
9/5/2018 15:43	135.13	4.16	55.7	374	560	536	281.14	0 RUNNING	242	224
9/5/2018 15:43	134.94	4.15	55.8	374.1	560	537	279.65	0 RUNNING	242	224
9/5/2018 15:43	134.63	4.16	55.7	374.1	560	534	279.8	0 RUNNING	242	224
9/5/2018 15:43	134.84	4.16	55.8	374.1	560	533	279.85	0 RUNNING	242	224
9/5/2018 15:43	134.4	4.15	55.8	374	560	532	277.64	0 RUNNING	242	224
9/5/2018 15:43	134.56	4.15	55.8	374.1	560	531	283.1	0 RUNNING	242	224
9/5/2018 15:43	134.95	4.15	55.7	374	560	530	279.97	0 RUNNING	242	224
9/5/2018 15:43	134.26	4.15	55.8	374.1	560	530	279.01	0 RUNNING	242	224
9/5/2018 15:43	135.07	4.16	55.8	374.1	560	532	281.03	0 RUNNING	242	224
9/5/2018 15:43	134.59	4.16	56	374.3	560	534	280.98	0 RUNNING	242	224
9/5/2018 15:43	134.43	4.16	55.8	374.1	560	534	280.67	0 RUNNING	242	224
9/5/2018 15:43	135.28	4.15	55.7	374	560	536	278.93	0 RUNNING	242	224
9/5/2018 15:43	134.28	4.16	55.8	374.1	560	536	278.62	0 RUNNING	242	224
9/5/2018 15:43	134.45	4.16	55.9	374.3	560	537	278.69	0 RUNNING	242	224
9/5/2018 15:43	134.63	4.16	56	374.3	560	536	280.95	0 RUNNING	242	224
9/5/2018 15:43	135.04	4.17	55.9	374.4	560	534	279.84	0 RUNNING	242	224
9/5/2018 15:43	134.44	4.16	55.8	374.2	560	533	280.37	0 RUNNING	242	224
9/5/2018 15:43	134.89	4.16	55.9	374.2	560	531	280.28	0 RUNNING	242	224
9/5/2018 15:43	134.33	4.16	55.8	374.2	560	529	277.58	0 RUNNING	242	224
9/5/2018 15:43	134.69	4.16	55.9	374.2	560	531	280.11	0 RUNNING	242	224
9/5/2018 15:43	134.52	4.16	55.9	374.3	560	531	277.63	0 RUNNING	242	224
9/5/2018 15:43	135.39	4.16	55.9	374.3	560	534	281.58	0 RUNNING	242	224
9/5/2018 15:43	135.11	4.15	55.8	374	560	534	280.88	0 RUNNING	242	224
9/5/2018 15:43	134.99	4.16	55.9	374.3	560	536	279.78	0 RUNNING	242	224
9/5/2018 15:43	134.65	4.16	55.9	374.3	560	537	280.57	0 RUNNING	242	224
9/5/2018 15:43	134.69	4.16	55.8	374.2	560	535	278	0 RUNNING	242	224
9/5/2018 15:43	135.1	4.17	56	374.4	560	536	281.55	0 RUNNING	242	224
9/5/2018 15:43	134.24	4.16	55.9	374.2	560	533	281.77	0 RUNNING	242	224
9/5/2018 15:43	134.42	4.17	56	374.4	560	532	279.89	0 RUNNING	242	224
9/5/2018 15:43	134.62	4.16	55.8	374.1	560	530	276.29	0 RUNNING	242	224
9/5/2018 15:43	135.34	4.16	56	374.4	560	530	281.91	0 RUNNING	242	224
9/5/2018 15:43	134.7	4.16	55.9	374.2	560	530	279.68	0 RUNNING	242	224
9/5/2018 15:43	134.8	4.16	55.8	374.2	560	530	280.13	0 RUNNING	242	224
9/5/2018 15:43	134.27	4.16	55.9	374.2	560	532	278.02	0 RUNNING	242	224
9/5/2018 15:43	134.7	4.16	56	374.3	560	534	278.04	0 RUNNING	242	224
9/5/2018 15:43	134.38	4.16	55.9	374.2	560	535	279.85	0 RUNNING	242	224
9/5/2018 15:43	135.46	4.15	55.8	374.1	560	536	280.52	0 RUNNING	242	224
9/5/2018 15:43	134.81	4.15	55.8	374	560	536	280.13	0 RUNNING	242	224
9/5/2018 15:43	134.68	4.16	55.8	374.1	560	534	277.9	0 RUNNING	242	224
9/5/2018 15:43	134.76	4.16	55.8	374.2	560	532	279.89	0 RUNNING	242	224
9/5/2018 15:43	134.69	4.16	56	374.3	560	531	279.13	0 RUNNING	242	224
9/5/2018 15:43	134.79	4.15	55.9	374.1	560	531	280.37	0 RUNNING	242	224
9/5/2018 15:43	135.24	4.17	56	374.5	560	529	279.92	0 RUNNING	242	224
9/5/2018 15:43	134.28	4.16	55.8	374.2	560	529	277.08	0 RUNNING	242	224
9/5/2018 15:43	135.11	4.17	56.2	374.6	560	530	280.16	0 RUNNING	242	224
9/5/2018 15:43	135.06	4.17	56.1	374.5	560	532	282.38	0 RUNNING	242	224
9/5/2018 15:43	134.57	4.17	56	374.4	560	534	279	0 RUNNING	242	224
9/5/2018 15:43	134.43	4.17	56	374.4	560	534	278.53	0 RUNNING	242	224
9/5/2018 15:43	134.89	4.16	55.9	374.2	560	536	278.81	0 RUNNING	242	224
9/5/2018 15:43	135.2	4.15	55.9	374.2	560	537	282.45	0 RUNNING	242	224
9/5/2018 15:43	135.06	4.16	56	374.3	560	535	279.37	0 RUNNING	242	224
9/5/2018 15:43	134.06	4.15	55.8	374	560	534	278.43	0 RUNNING	242	224
9/5/2018 15:43	135.24	4.15	55.8	374	560	531	278.72	0 RUNNING	242	224
9/5/2018 15:43	135.23	4.16	56	374.4	560	530	281.05	0 RUNNING	242	224
9/5/2018 15:43	134.3	4.16	55.9	374.2	560	528	277.03	0 RUNNING	242	224
9/5/2018 15:43	135.3	4.15	55.9	374.2	560	529	280.31	0 RUNNING	242	224
9/5/2018 15:43	134.77	4.16	56	374.4	560	529	280.5	0 RUNNING	242	224
9/5/2018 15:43	134.77	4.16	56	374.3	560	531	277.64	0 RUNNING	242	224
9/5/2018 15:44	134.82	4.16	56	374.3	560	532	279.25	0 RUNNING	242	224
9/5/2018 15:44	134.32	4.16	55.9	374.2	560	534	277.59	0 RUNNING	242	224
9/5/2018 15:44	135.24	4.16	55.9	374.2	560	534	278.06	0 RUNNING	242	224
9/5/2018 15:44	135.22	4.16	55.9	374.2	560	534	280.3	0 RUNNING	242	224
9/5/2018 15:44	134.97	4.15	55.8	374.1	560	533	278.95	0 RUNNING	242	224
9/5/2018 15:44	134.8	4.15	55.8	374.1	560	532	277.78	0 RUNNING	242	224

9/5/2018 15:44	134.87	4.16	56	374.3	560	531	279.75	0 RUNNING	242	224
9/5/2018 15:44	134.46	4.16	55.9	374.2	560	528	278.59	0 RUNNING	242	224
9/5/2018 15:44	134.96	4.15	55.9	374.1	560	528	278.57	0 RUNNING	242	224
9/5/2018 15:44	135.42	4.16	55.9	374.2	560	528	280.83	0 RUNNING	242	224
9/5/2018 15:44	134.91	4.16	56	374.3	560	529	280.31	0 RUNNING	242	224
9/5/2018 15:44	134.64	4.16	55.9	374.2	560	529	275.25	0 RUNNING	242	224
9/5/2018 15:44	134.81	4.16	56	374.3	560	531	279.92	0 RUNNING	242	224
9/5/2018 15:44	134.84	4.16	56	374.3	560	532	279.15	0 RUNNING	242	224
9/5/2018 15:44	134.43	4.16	55.9	374.2	560	534	279.39	0 RUNNING	242	224
9/5/2018 15:44	134.54	4.16	56	374.3	560	534	280.69	0 RUNNING	242	224
9/5/2018 15:44	134.29	4.16	56	374.3	560	533	276.74	0 RUNNING	242	224
9/5/2018 15:44	135.1	4.16	56	374.3	560	532	279.42	0 RUNNING	242	224
9/5/2018 15:44	134.39	4.16	55.9	374.2	560	529	277.95	0 RUNNING	242	224
9/5/2018 15:44	134.85	4.17	56.1	374.5	560	528	278.84	0 RUNNING	242	224
9/5/2018 15:44	134.43	4.16	56	374.3	560	525	274.87	0 RUNNING	242	224
9/5/2018 15:44	135.12	4.17	56.1	374.5	560	528	281.17	0 RUNNING	242	224
9/5/2018 15:44	134.47	4.15	55.9	374.1	560	528	279.42	0 RUNNING	242	224
9/5/2018 15:44	135	4.15	56	374.2	560	529	279.6	0 RUNNING	242	224
9/5/2018 15:44	135.05	4.16	56	374.4	560	530	280.47	0 RUNNING	242	224
9/5/2018 15:44	135.07	4.15	55.9	374.1	560	531	280.31	0 RUNNING	242	224
9/5/2018 15:44	134.56	4.15	55.9	374.1	560	533	279	0 RUNNING	242	224
9/5/2018 15:44	134.8	4.16	56	374.3	560	534	280.84	0 RUNNING	242	224
9/5/2018 15:44	134.72	4.16	55.9	374.2	560	532	279.54	0 RUNNING	242	224
9/5/2018 15:44	134.85	4.15	55.9	374.1	560	532	278.47	0 RUNNING	242	224
9/5/2018 15:44	135.02	4.16	56	374.2	560	530	279.49	0 RUNNING	242	224
9/5/2018 15:44	134.45	4.15	55.9	374.1	560	529	277.75	0 RUNNING	242	224
9/5/2018 15:44	134.56	4.15	55.9	374.1	560	527	277.82	0 RUNNING	242	224
9/5/2018 15:44	134.5	4.15	55.9	374.2	560	526	279.77	0 RUNNING	242	224
9/5/2018 15:44	134.9	4.15	55.9	374.2	560	525	280.09	0 RUNNING	242	224
9/5/2018 15:44	134.96	4.16	56	374.4	560	528	278.65	0 RUNNING	242	224
9/5/2018 15:44	134.96	4.16	56	374.4	560	528	278.65	0 RUNNING	242	224
9/5/2018 15:44	134.09	4.15	55.9	374.1	560	530	278.71	0 RUNNING	242	224
9/5/2018 15:44	135.26	4.15	55.9	374.1	560	530	278.71	0 RUNNING	242	224
9/5/2018 15:44	135.15	4.15	55.8	374	560	531	278.91	0 RUNNING	242	224
9/5/2018 15:44	134.37	4.14	55.8	373.9	560	533	278.67	0 RUNNING	242	224
9/5/2018 15:44	134.5	4.16	56	374.2	560	533	277.18	0 RUNNING	242	224
9/5/2018 15:44	135.5	4.14	55.8	373.9	560	531	279.08	0 RUNNING	242	224
9/5/2018 15:44	134.26	4.15	55.8	374	560	530	276.87	0 RUNNING	242	224
9/5/2018 15:44	134.06	4.15	55.8	374	560	529	279.53	0 RUNNING	242	224
9/5/2018 15:44	134.65	4.15	55.9	374.2	560	527	278.69	0 RUNNING	242	224
9/5/2018 15:44	135.11	4.15	55.9	374.1	560	527	278.47	0 RUNNING	242	224
9/5/2018 15:44	134.23	4.15	55.9	374.1	560	526	275.42	0 RUNNING	242	224
9/5/2018 15:44	134.26	4.14	55.9	374	560	528	281.15	0 RUNNING	242	224
9/5/2018 15:44	135.14	4.15	55.9	374.1	560	528	281.1	0 RUNNING	242	224
9/5/2018 15:44	134.78	4.15	55.8	374	560	530	275.45	0 RUNNING	242	224
9/5/2018 15:44	134.84	4.15	55.9	374.1	560	531	280.26	0 RUNNING	242	224
9/5/2018 15:44	134.96	4.15	55.8	374	560	531	278	0 RUNNING	242	224
9/5/2018 15:44	135.03	4.15	55.8	374	560	533	279.75	0 RUNNING	242	224
9/5/2018 15:44	134.95	4.14	55.7	373.8	560	532	278.04	0 RUNNING	242	224
9/5/2018 15:44	134.47	4.15	55.8	374	560	528	278.31	0 RUNNING	242	224
9/5/2018 15:44	134.74	4.14	55.8	373.9	560	529	278.88	0 RUNNING	242	224
9/5/2018 15:44	135.28	4.15	55.8	374	560	528	279.46	0 RUNNING	242	224
9/5/2018 15:44	135.41	4.15	55.9	374.1	560	527	280.23	0 RUNNING	242	224
9/5/2018 15:45	134.48	4.15	55.8	374.1	560	527	276.55	0 RUNNING	242	224
9/5/2018 15:45	135	4.15	55.9	374.2	560	528	278.86	0 RUNNING	242	224
9/5/2018 15:45	134.99	4.15	55.9	374.1	560	529	279.89	0 RUNNING	242	224
9/5/2018 15:45	135.46	4.15	55.9	374.1	560	532	280.18	0 RUNNING	242	224
9/5/2018 15:45	134.54	4.15	55.9	374.1	560	533	279.36	0 RUNNING	242	224
9/5/2018 15:45	134.63	4.16	56	374.3	560	534	279.44	0 RUNNING	242	224
9/5/2018 15:45	134.65	4.15	55.9	374.2	560	535	280.13	0 RUNNING	242	224
9/5/2018 15:45	134.96	4.15	55.9	374	560	533	279.9	0 RUNNING	242	224
9/5/2018 15:45	134.36	4.14	55.7	373.9	560	531	275.06	0 RUNNING	242	224
9/5/2018 15:45	134.73	4.16	56	374.3	560	531	279.94	0 RUNNING	242	224
9/5/2018 15:45	134.49	4.16	56	374.3	560	530	280.47	0 RUNNING	242	224
9/5/2018 15:45	134.94	4.16	55.9	374.3	560	529	279.27	0 RUNNING	242	224

9/5/2018 15:45	135	4.16	55.9	374.2	560	527	280.79	0 RUNNING	242	224
9/5/2018 15:45	134.33	4.16	56	374.3	560	529	278.53	0 RUNNING	242	224
9/5/2018 15:45	135.1	4.15	55.9	374.1	560	529	279.37	0 RUNNING	242	224
9/5/2018 15:45	135.14	4.15	55.9	374.2	560	533	281.32	0 RUNNING	242	224
9/5/2018 15:45	134.85	4.16	55.9	374.3	560	533	278.19	0 RUNNING	242	224
9/5/2018 15:45	134.56	4.15	55.9	374.2	560	535	277.22	0 RUNNING	242	224
9/5/2018 15:45	135.08	4.15	55.9	374.1	560	535	280.9	0 RUNNING	242	224
9/5/2018 15:45	134.87	4.15	55.9	374.1	560	534	278.83	0 RUNNING	242	224
9/5/2018 15:45	134.83	4.15	55.9	372.4	560	532	278.45	0 RUNNING	242	224
9/5/2018 15:45	134.88	4.15	55.9	372.3	560	531	278.52	0 RUNNING	242	224
9/5/2018 15:45	134.72	4.15	55.9	372.3	560	528	280.52	0 RUNNING	242	224
9/5/2018 15:45	134.73	4.15	55.8	372.3	560	526	279.99	0 RUNNING	242	224
9/5/2018 15:45	134.55	4.15	56	372.5	560	529	278.86	0 RUNNING	242	224
9/5/2018 15:45	135.42	4.15	55.8	372.2	560	528	277.25	0 RUNNING	242	224
9/5/2018 15:45	134.92	4.14	55.8	372.2	560	529	280.76	0 RUNNING	242	224
9/5/2018 15:45	134.69	4.15	55.8	372.3	560	531	277.63	0 RUNNING	242	224
9/5/2018 15:45	135.14	4.14	55.8	372.2	560	533	279.15	0 RUNNING	242	224
9/5/2018 15:45	135.24	4.15	55.8	372.3	560	533	280.64	0 RUNNING	242	224
9/5/2018 15:45	135.09	4.15	55.8	374.1	560	533	279.41	0 RUNNING	242	224
9/5/2018 15:45	134.34	4.14	55.8	373.9	560	533	277.85	0 RUNNING	242	224
9/5/2018 15:45	134.18	4.14	55.8	373.9	560	530	279.15	0 RUNNING	242	224
9/5/2018 15:45	134.22	4.15	55.9	374.1	560	529	278.31	0 RUNNING	242	224
9/5/2018 15:45	134.61	4.14	55.8	374	560	528	278.6	0 RUNNING	242	224
9/5/2018 15:45	134.71	4.15	55.8	374	560	527	278.02	0 RUNNING	242	224
9/5/2018 15:45	135.09	4.15	55.9	374.1	560	526	280.57	0 RUNNING	242	224
9/5/2018 15:45	135.17	4.16	55.9	374.2	560	526	280.04	0 RUNNING	242	224
9/5/2018 15:45	134.5	4.15	55.9	374.1	560	529	277.32	0 RUNNING	242	224
9/5/2018 15:45	134.38	4.15	55.8	374	560	529	280.02	0 RUNNING	242	224
9/5/2018 15:45	134.13	4.14	55.7	373.9	560	531	278.23	0 RUNNING	242	224
9/5/2018 15:45	134.91	4.15	55.8	374	560	533	278.77	0 RUNNING	242	224
9/5/2018 15:45	134.99	4.14	55.7	373.9	560	533	279.32	0 RUNNING	242	224
9/5/2018 15:45	134.92	4.15	55.7	373.9	560	532	279.3	0 RUNNING	242	224
9/5/2018 15:45	135.45	4.14	55.7	373.8	560	531	281.2	0 RUNNING	242	224
9/5/2018 15:45	135.34	4.15	55.8	374	560	530	279.56	0 RUNNING	242	224
9/5/2018 15:45	134.36	4.14	55.8	374	560	528	277.63	0 RUNNING	242	224
9/5/2018 15:45	134.96	4.14	55.7	373.9	560	527	279.15	0 RUNNING	242	224
9/5/2018 15:45	135.13	4.14	55.8	373.9	560	526	280.11	0 RUNNING	242	224
9/5/2018 15:45	134.86	4.14	55.7	373.8	560	525	279.56	0 RUNNING	242	224
9/5/2018 15:45	134.66	4.15	55.9	374.1	560	529	277.68	0 RUNNING	242	224
9/5/2018 15:45	134.81	4.14	55.7	373.8	560	528	281.1	0 RUNNING	242	224
9/5/2018 15:45	134.8	4.14	55.7	373.8	560	530	277.71	0 RUNNING	242	224
9/5/2018 15:45	135.44	4.14	55.7	373.8	560	531	279.39	0 RUNNING	242	224
9/5/2018 15:45	134.51	4.14	55.8	374	560	533	277.42	0 RUNNING	242	224
9/5/2018 15:45	135.11	4.14	55.8	373.9	560	533	279.92	0 RUNNING	242	224
9/5/2018 15:45	134.72	4.14	55.8	374	560	531	278.21	0 RUNNING	242	224
9/5/2018 15:45	135.08	4.14	55.7	373.9	560	529	279.82	0 RUNNING	242	224
9/5/2018 15:45	135.08	4.14	55.8	373.9	560	527	279.08	0 RUNNING	242	224
9/5/2018 15:46	134.95	4.14	55.7	373.8	560	525	280.38	0 RUNNING	242	224
9/5/2018 15:46	134.57	4.14	55.7	373.9	560	524	276.52	0 RUNNING	242	224
9/5/2018 15:46	134.94	4.13	55.7	373.7	560	526	276.77	0 RUNNING	242	224
9/5/2018 15:46	134.67	4.14	55.7	373.8	560	526	277.75	0 RUNNING	242	224
9/5/2018 15:46	134.84	4.13	55.7	373.7	560	527	279.12	0 RUNNING	242	224
9/5/2018 15:46	134.73	4.15	55.9	374	560	530	279.92	0 RUNNING	242	224
9/5/2018 15:46	134.98	4.14	55.8	374	560	531	280.69	0 RUNNING	242	224
9/5/2018 15:46	134.8	4.14	55.7	373.8	560	530	277.22	0 RUNNING	242	224
9/5/2018 15:46	135.31	4.14	55.7	373.9	560	531	279.94	0 RUNNING	242	224
9/5/2018 15:46	134.42	4.13	55.6	373.7	560	529	275.16	0 RUNNING	242	224
9/5/2018 15:46	135.3	4.14	55.8	373.9	560	529	279.82	0 RUNNING	242	224
9/5/2018 15:46	135.39	4.13	55.7	373.8	560	526	280.5	0 RUNNING	242	224
9/5/2018 15:46	134.8	4.13	55.6	373.7	560	525	277.32	0 RUNNING	242	224
9/5/2018 15:46	134.24	4.13	55.7	373.7	560	523	279.01	0 RUNNING	242	224
9/5/2018 15:46	135.39	4.13	55.6	373.6	560	523	277.46	0 RUNNING	242	224
9/5/2018 15:46	134.35	4.13	55.6	373.6	560	523	277.37	0 RUNNING	242	224
9/5/2018 15:46	134.43	4.13	55.7	373.7	560	525	278.35	0 RUNNING	242	224
9/5/2018 15:46	134.56	4.14	55.7	373.8	560	525	278.21	0 RUNNING	242	224

9/5/2018 15:46	135.35	4.13	55.5	373.6	560	526	277.22	0 RUNNING	242	224
9/5/2018 15:46	134.32	4.13	55.6	373.6	560	526	277.42	0 RUNNING	242	224
9/5/2018 15:46	134.97	4.13	55.6	373.6	560	527	277.92	0 RUNNING	242	224
9/5/2018 15:46	134.74	4.13	55.6	371.9	560	524	276.09	0 RUNNING	242	224
9/5/2018 15:46	135.16	4.13	55.7	372	560	523	278.04	0 RUNNING	242	224
9/5/2018 15:46	135.13	4.13	55.7	372	560	520	280.35	0 RUNNING	242	224
9/5/2018 15:46	134.85	4.13	55.6	371.9	560	518	278.5	0 RUNNING	242	224
9/5/2018 15:46	134.4	4.12	55.5	371.7	560	516	276.67	0 RUNNING	242	224
9/5/2018 15:46	134.42	4.12	55.6	371.8	560	516	278.23	0 RUNNING	242	224
9/5/2018 15:46	134.48	4.13	55.7	372	560	515	280.19	0 RUNNING	242	224
9/5/2018 15:46	134.36	4.12	55.5	371.7	560	514	275.32	0 RUNNING	242	224
9/5/2018 15:46	135.28	4.13	55.6	371.9	560	518	278.3	0 RUNNING	242	224
9/5/2018 15:46	134.83	4.13	55.7	372.1	560	518	279.32	0 RUNNING	242	224
9/5/2018 15:46	134.49	4.13	55.6	371.9	560	518	278.67	0 RUNNING	242	224
9/5/2018 15:46	135.06	4.14	55.9	372.3	560	519	278.52	0 RUNNING	242	224
9/5/2018 15:46	134.85	4.13	55.6	371.9	560	516	276.72	0 RUNNING	242	224
9/5/2018 15:46	134.24	4.13	55.6	371.9	560	514	278.71	0 RUNNING	242	224
9/5/2018 15:46	134.45	4.12	55.5	371.7	560	510	278.28	0 RUNNING	242	224
9/5/2018 15:46	134.94	4.13	55.6	371.9	560	508	276.48	0 RUNNING	242	224
9/5/2018 15:46	135.58	4.13	55.7	371.9	560	505	281.27	0 RUNNING	242	224
9/5/2018 15:46	134.99	4.12	55.6	371.8	560	504	278.81	0 RUNNING	242	224
9/5/2018 15:46	134.51	4.13	55.6	371.9	560	502	278.6	0 RUNNING	242	224
9/5/2018 15:46	134.93	4.13	55.7	372	560	503	277.53	0 RUNNING	242	224
9/5/2018 15:46	134.9	4.12	55.5	373.5	560	503	275.33	0 RUNNING	242	224
9/5/2018 15:46	134.54	4.12	55.6	373.6	560	502	279.2	0 RUNNING	242	224
9/5/2018 15:46	134.6	4.13	55.6	373.6	560	500	278.35	0 RUNNING	242	224
9/5/2018 15:46	134.85	4.12	55.6	373.6	560	499	278.52	0 RUNNING	242	224
9/5/2018 15:46	135.31	4.12	55.6	373.6	560	495	280.01	0 RUNNING	242	224
9/5/2018 15:46	134.91	4.13	55.6	373.6	560	493	279.24	0 RUNNING	242	224
9/5/2018 15:46	135.27	4.13	55.6	373.6	560	488	278.35	0 RUNNING	242	224
9/5/2018 15:46	134.1	4.12	55.5	373.5	560	484	276.89	0 RUNNING	242	224
9/5/2018 15:46	134.56	4.12	55.5	373.4	560	479	278.57	0 RUNNING	242	224
9/5/2018 15:46	135.21	4.12	55.6	373.6	560	478	278.16	0 RUNNING	242	224
9/5/2018 15:46	134.26	4.11	55.4	371.6	560	476	276.36	0 RUNNING	242	224
9/5/2018 15:46	134.99	4.11	55.4	371.5	560	475	279.22	0 RUNNING	242	224
9/5/2018 15:46	135.01	4.12	55.5	371.6	560	474	280.35	0 RUNNING	242	224
9/5/2018 15:46	134.84	4.11	55.5	371.6	560	474	277.82	0 RUNNING	242	224
9/5/2018 15:46	134.75	4.12	55.5	371.7	560	474	277.44	0 RUNNING	242	224
9/5/2018 15:46	134.83	4.11	55.5	371.6	560	472	277.49	0 RUNNING	242	224
9/5/2018 15:46	134.16	4.1	55.1	371.2	560	469	275.9	0 RUNNING	242	224
9/5/2018 15:46	134.91	4.1	55.2	371.3	560	466	279.01	0 RUNNING	242	224
9/5/2018 15:47	135.61	4.1	55.1	371.2	560	463	277.88	0 RUNNING	242	224
9/5/2018 15:47	134.32	4.11	55.3	371.4	560	460	278.3	0 RUNNING	242	224
9/5/2018 15:47	134.09	4.11	55.3	371.4	560	458	278.6	0 RUNNING	242	224
9/5/2018 15:47	135.62	4.11	55.4	371.5	560	458	277.8	0 RUNNING	242	224
9/5/2018 15:47	134.29	4.1	55.2	371.2	560	455	276.99	0 RUNNING	242	224
9/5/2018 15:47	134.7	4.1	55.2	371.2	560	456	276.64	0 RUNNING	242	224
9/5/2018 15:47	135.21	4.1	55.3	371.3	560	457	278.76	0 RUNNING	242	224
9/5/2018 15:47	134.69	4.11	55.4	371.4	560	456	280.57	0 RUNNING	242	224
9/5/2018 15:47	134.25	4.1	55.3	371.4	560	456	277.15	0 RUNNING	242	224
9/5/2018 15:47	134.36	4.1	55.3	371.3	560	456	276.84	0 RUNNING	242	224
9/5/2018 15:47	134.6	4.1	55.3	371.4	560	456	275.97	0 RUNNING	242	224
9/5/2018 15:47	134.37	4.11	55.4	371.4	560	453	278.43	0 RUNNING	242	224
9/5/2018 15:47	135.58	4.11	55.4	371.4	560	450	279.82	0 RUNNING	242	224
9/5/2018 15:47	135.12	4.1	55.2	371.3	560	448	279.12	0 RUNNING	242	224
9/5/2018 15:47	134.74	4.1	55.3	371.3	560	446	278	0 RUNNING	242	224
9/5/2018 15:47	134.49	4.1	55.3	371.4	560	443	278.02	0 RUNNING	242	224
9/5/2018 15:47	134.57	4.1	55.3	371.4	560	442	279.3	0 RUNNING	242	224
9/5/2018 15:47	134.2	4.11	55.3	371.4	560	443	278.28	0 RUNNING	242	224
9/5/2018 15:47	134.62	4.11	55.3	371.4	560	445	275.97	0 RUNNING	242	224
9/5/2018 15:47	135.01	4.1	55.3	371.4	560	445	278.98	0 RUNNING	242	224
9/5/2018 15:47	134.29	4.1	55.3	371.3	560	444	278.79	0 RUNNING	242	224
9/5/2018 15:47	134.98	4.1	55.3	371.4	560	444	279.32	0 RUNNING	242	224
9/5/2018 15:47	135.1	4.1	55.2	371.2	560	443	277.41	0 RUNNING	242	224
9/5/2018 15:47	134.46	4.1	55.2	371.2	560	442	276.48	0 RUNNING	242	224

9/5/2018 15:47	134.56	4.1	55.2	371.2	560	440	277.49	0 RUNNING	242	224
9/5/2018 15:47	135	4.09	55.2	371.2	560	437	278.84	0 RUNNING	242	224
9/5/2018 15:47	134.72	4.09	55.1	371.1	560	435	277.61	0 RUNNING	242	224
9/5/2018 15:47	133.93	4.1	55.1	371.1	560	435	275.44	0 RUNNING	242	224
9/5/2018 15:47	134.59	4.09	55.2	371.1	560	434	276.09	0 RUNNING	242	224
9/5/2018 15:47	134.36	4.1	55.2	371.2	560	434	277.95	0 RUNNING	242	224
9/5/2018 15:47	134.36	4.1	55.2	371.2	560	436	276.53	0 RUNNING	242	224
9/5/2018 15:47	134.69	4.09	55.2	371.1	560	437	278.35	0 RUNNING	242	224
9/5/2018 15:47	135.22	4.1	55.2	371.2	560	437	278.35	0 RUNNING	242	224
9/5/2018 15:47	134.69	4.1	55.2	371.2	560	436	278.55	0 RUNNING	242	224
9/5/2018 15:47	134.78	4.09	55.1	371	560	436	278.72	0 RUNNING	242	224
9/5/2018 15:47	134.81	4.09	55.1	371	560	435	278.52	0 RUNNING	242	224
9/5/2018 15:47	134.15	4.09	55.1	371	560	433	278.3	0 RUNNING	242	224
9/5/2018 15:47	134.6	4.08	55	370.8	560	430	277.88	0 RUNNING	242	224
9/5/2018 15:47	134.91	4.09	55.1	371	560	429	277.61	0 RUNNING	242	224
9/5/2018 15:47	134.76	4.08	54.9	370.8	560	427	276.6	0 RUNNING	242	224
9/5/2018 15:47	134.26	4.08	55.1	370.9	560	426	277.11	0 RUNNING	242	224
9/5/2018 15:47	134.7	4.08	55	370.8	560	425	277.01	0 RUNNING	242	224
9/5/2018 15:47	135.5	4.08	55	370.8	560	426	280.4	0 RUNNING	242	224
9/5/2018 15:47	134.42	4.08	55	370.8	560	427	275.87	0 RUNNING	242	224
9/5/2018 15:47	134.76	4.08	55.1	370.9	560	428	278.64	0 RUNNING	242	224
9/5/2018 15:47	134.85	4.08	55.1	370.9	560	429	277.44	0 RUNNING	242	224
9/5/2018 15:47	134.42	4.08	54.9	370.7	560	428	277.92	0 RUNNING	242	224
9/5/2018 15:47	134.61	4.08	55.1	370.9	560	427	277.42	0 RUNNING	242	224
9/5/2018 15:47	134.6	4.08	54.9	370.7	560	427	278	0 RUNNING	242	224
9/5/2018 15:47	134.86	4.07	54.9	370.7	560	424	277.32	0 RUNNING	242	224
9/5/2018 15:47	134.58	4.08	54.9	370.8	560	421	278.41	0 RUNNING	242	224
9/5/2018 15:47	134.79	4.07	54.9	370.7	560	419	276.48	0 RUNNING	242	224
9/5/2018 15:47	134.41	4.08	55	370.8	560	417	275.54	0 RUNNING	242	224
9/5/2018 15:47	135.29	4.08	55	370.8	560	416	277.82	0 RUNNING	242	224
9/5/2018 15:47	135.44	4.08	55.1	371	560	415	279.2	0 RUNNING	242	224
9/5/2018 15:47	134.14	4.08	54.9	370.8	560	415	277.42	0 RUNNING	242	224
9/5/2018 15:47	134.76	4.08	54.9	370.7	560	416	278.07	0 RUNNING	242	224
9/5/2018 15:47	134.85	4.08	55	370.8	560	415	279.07	0 RUNNING	242	224
9/5/2018 15:47	134.56	4.08	54.9	370.8	560	415	278.09	0 RUNNING	242	224
9/5/2018 15:48	134.56	4.08	55	370.8	560	414	278.06	0 RUNNING	242	224
9/5/2018 15:48	134.74	4.08	54.9	370.8	560	414	276.69	0 RUNNING	242	224
9/5/2018 15:48	134.91	4.08	55	370.8	560	412	278.09	0 RUNNING	242	224
9/5/2018 15:48	134.53	4.08	55	370.8	560	411	276.07	0 RUNNING	242	224
9/5/2018 15:48	134.14	4.08	54.9	370.7	560	409	275.3	0 RUNNING	242	224
9/5/2018 15:48	135.1	4.07	54.9	370.6	560	411	276.17	0 RUNNING	242	224
9/5/2018 15:48	134.29	4.08	54.9	370.8	560	411	274.6	0 RUNNING	242	224
9/5/2018 15:48	135.24	4.07	54.8	370.6	560	414	274.94	0 RUNNING	242	224
9/5/2018 15:48	134.66	4.07	54.9	370.6	560	417	279.66	0 RUNNING	242	224
9/5/2018 15:48	134.56	4.07	54.8	370.6	560	422	275.95	0 RUNNING	242	224
9/5/2018 15:48	134.68	4.08	54.9	370.8	560	428	278.5	0 RUNNING	242	224
9/5/2018 15:48	135.03	4.07	54.9	370.7	560	433	278.67	0 RUNNING	242	224
9/5/2018 15:48	134.86	4.07	54.8	370.6	560	436	276.53	0 RUNNING	242	224
9/5/2018 15:48	135.46	4.08	55	370.9	560	440	276.76	0 RUNNING	242	224
9/5/2018 15:48	134.48	4.08	54.9	370.7	560	440	278.31	0 RUNNING	242	224
9/5/2018 15:48	134.59	4.07	54.8	370.6	560	441	275.76	0 RUNNING	242	224
9/5/2018 15:48	134.17	4.07	54.9	370.7	560	441	276.74	0 RUNNING	242	224
9/5/2018 15:48	134.54	4.07	54.9	370.7	560	442	276.69	0 RUNNING	242	224
9/5/2018 15:48	135.38	4.07	54.9	370.7	560	443	278.81	0 RUNNING	242	224
9/5/2018 15:48	133.9	4.07	54.7	370.5	560	444	275.13	0 RUNNING	242	224
9/5/2018 15:48	135	4.07	54.9	370.7	560	447	278.69	0 RUNNING	242	224
9/5/2018 15:48	134.3	4.07	54.8	370.7	560	448	275.61	0 RUNNING	242	224
9/5/2018 15:48	134.6	4.07	54.9	370.7	560	452	276.22	0 RUNNING	242	224
9/5/2018 15:48	134.68	4.07	54.9	370.7	560	453	276.86	0 RUNNING	242	224
9/5/2018 15:48	135.59	4.08	55	370.8	560	456	277.82	0 RUNNING	242	224
9/5/2018 15:48	134.46	4.08	55	370.8	560	456	276.6	0 RUNNING	242	224
9/5/2018 15:48	134.56	4.08	54.9	370.7	560	458	278.06	0 RUNNING	242	224
9/5/2018 15:48	134.51	4.08	55	370.9	560	463	278.62	0 RUNNING	242	224
9/5/2018 15:48	134.72	4.07	54.9	370.7	560	472	278.07	0 RUNNING	242	224
9/5/2018 15:48	134.88	4.08	55	370.8	560	485	278.62	0 RUNNING	242	224

9/5/2018 15:48	134.44	4.08	54.9	370.8	560	494	275.4	0 RUNNING	242	224
9/5/2018 15:48	134.85	4.07	54.8	370.6	560	504	276.33	0 RUNNING	242	224
9/5/2018 15:48	134.24	4.07	54.9	370.7	560	510	277.35	0 RUNNING	242	224
9/5/2018 15:48	134.16	4.07	54.9	370.7	560	515	275.95	0 RUNNING	242	224
9/5/2018 15:48	134.45	4.07	54.8	370.6	560	520	276.33	0 RUNNING	242	224
9/5/2018 15:48	134.24	4.07	54.8	370.5	560	521	278.64	0 RUNNING	242	224
9/5/2018 15:48	134.67	4.07	54.8	370.6	560	525	276.53	0 RUNNING	242	224
9/5/2018 15:48	134.76	4.07	54.8	370.6	560	526	275.75	0 RUNNING	242	224
9/5/2018 15:48	134.33	4.07	54.8	370.5	560	524	277.71	0 RUNNING	242	224
9/5/2018 15:48	135.18	4.07	54.8	370.6	560	525	277.78	0 RUNNING	242	224
9/5/2018 15:48	134.17	4.06	54.8	370.5	560	524	276.86	0 RUNNING	242	224
9/5/2018 15:48	134.86	4.08	54.9	370.7	560	522	279.27	0 RUNNING	242	224
9/5/2018 15:48	134.55	4.06	54.7	370.4	560	521	277.82	0 RUNNING	242	224
9/5/2018 15:48	135.3	4.07	54.8	370.6	560	522	276.67	0 RUNNING	242	224
9/5/2018 15:48	134.56	4.07	54.9	370.7	560	523	279.37	0 RUNNING	242	224
9/5/2018 15:48	134.79	4.06	54.7	370.4	560	524	277.34	0 RUNNING	242	224
9/5/2018 15:48	134.84	4.08	54.9	370.7	560	528	279.85	0 RUNNING	242	224
9/5/2018 15:48	134.35	4.07	54.8	370.6	560	529	277.41	0 RUNNING	242	224
9/5/2018 15:48	135.01	4.07	54.7	370.5	560	528	278.33	0 RUNNING	242	224
9/5/2018 15:48	134.06	4.07	54.8	370.6	560	530	274.89	0 RUNNING	242	224
9/5/2018 15:48	134.65	4.08	54.9	370.8	560	529	277.76	0 RUNNING	242	224
9/5/2018 15:48	135.29	4.07	54.9	370.7	560	528	279.13	0 RUNNING	242	224
9/5/2018 15:48	134.3	4.07	54.9	370.7	560	526	276.5	0 RUNNING	242	224
9/5/2018 15:48	134.84	4.07	54.8	370.6	560	524	278.67	0 RUNNING	242	224
9/5/2018 15:48	135	4.07	54.9	370.6	560	524	277.73	0 RUNNING	242	224
9/5/2018 15:48	134.26	4.07	54.9	370.7	560	525	278.11	0 RUNNING	242	224
9/5/2018 15:48	135.14	4.07	54.8	370.6	560	525	277.58	0 RUNNING	242	224
9/5/2018 15:48	134.46	4.07	54.9	370.7	560	526	276.79	0 RUNNING	242	224
9/5/2018 15:48	134.78	4.07	54.9	370.7	560	528	277.03	0 RUNNING	242	224
9/5/2018 15:49	134.57	4.08	54.9	370.7	560	530	277.18	0 RUNNING	242	224
9/5/2018 15:49	134.72	4.08	55	370.8	560	530	277.63	0 RUNNING	242	224
9/5/2018 15:49	134.49	4.08	55	370.8	560	531	278.35	0 RUNNING	242	224
9/5/2018 15:49	134.55	4.07	54.8	370.6	560	531	277.59	0 RUNNING	242	224
9/5/2018 15:49	134.99	4.08	55	370.8	560	527	277.82	0 RUNNING	242	224
9/5/2018 15:49	134.45	4.08	55	370.8	560	527	276.89	0 RUNNING	242	224
9/5/2018 15:49	134.5	4.09	55.1	371	560	526	277.05	0 RUNNING	242	224
9/5/2018 15:49	134.76	4.08	54.9	370.8	560	524	277.03	0 RUNNING	242	224
9/5/2018 15:49	134.9	4.09	55.1	371	560	524	278.74	0 RUNNING	242	224
9/5/2018 15:49	134.91	4.08	55	370.8	560	523	279.6	0 RUNNING	242	224
9/5/2018 15:49	134.24	4.08	54.9	370.8	560	524	275.47	0 RUNNING	242	224
9/5/2018 15:49	135.12	4.08	55	370.9	560	528	279.07	0 RUNNING	242	224
9/5/2018 15:49	135.33	4.08	54.9	370.7	560	527	278.65	0 RUNNING	242	224
9/5/2018 15:49	134.42	4.08	54.9	370.8	560	529	277.47	0 RUNNING	242	224
9/5/2018 15:49	134.78	4.08	54.9	370.8	560	530	278.28	0 RUNNING	242	224
9/5/2018 15:49	134.07	4.08	54.9	370.8	560	529	274.63	0 RUNNING	242	224
9/5/2018 15:49	135.19	4.08	55	370.8	560	528	278.52	0 RUNNING	242	224
9/5/2018 15:49	135.03	4.07	54.9	370.7	560	526	277.87	0 RUNNING	242	224
9/5/2018 15:49	134.78	4.08	55	370.9	560	525	279.84	0 RUNNING	242	224
9/5/2018 15:49	134.58	4.08	55	370.8	560	523	277.8	0 RUNNING	242	224
9/5/2018 15:49	134.58	4.08	55	370.9	560	522	275.97	0 RUNNING	242	224
9/5/2018 15:49	134.65	4.08	54.9	370.8	560	523	278.12	0 RUNNING	242	224
9/5/2018 15:49	134.93	4.09	55.1	371	560	524	279.82	0 RUNNING	242	224
9/5/2018 15:49	134.63	4.08	55	370.9	560	524	276.41	0 RUNNING	242	224
9/5/2018 15:49	134.36	4.09	55	370.9	560	527	278.5	0 RUNNING	242	224
9/5/2018 15:49	135.13	4.09	55	370.9	560	527	277.54	0 RUNNING	242	224
9/5/2018 15:49	134.73	4.1	55.2	371.2	560	528	278.12	0 RUNNING	242	224
9/5/2018 15:49	134.32	4.09	55.1	371	560	527	278.47	0 RUNNING	242	224
9/5/2018 15:49	134.27	4.08	55	370.8	560	524	277.2	0 RUNNING	242	224
9/5/2018 15:49	134.73	4.09	55.1	371	560	524	277.1	0 RUNNING	242	224
9/5/2018 15:49	134.96	4.09	55.1	371	560	522	280.11	0 RUNNING	242	224
9/5/2018 15:49	134.74	4.09	55	370.9	560	520	278.24	0 RUNNING	242	224
9/5/2018 15:49	134.5	4.09	55.1	371	560	520	277.68	0 RUNNING	242	224
9/5/2018 15:49	135.17	4.09	54.9	370.9	560	519	275.51	0 RUNNING	242	224
9/5/2018 15:49	135.03	4.09	55.2	371.1	560	521	278.79	0 RUNNING	242	224
9/5/2018 15:49	135.15	4.09	55.1	371	560	520	278.3	0 RUNNING	242	224

9/5/2018 15:49	134.89	4.09	55.2	371.1	560	523	278.12	0 RUNNING	242	224
9/5/2018 15:49	135.05	4.09	55.1	371	560	524	279.8	0 RUNNING	242	224
9/5/2018 15:49	134.85	4.08	54.9	370.7	560	522	279.1	0 RUNNING	242	224
9/5/2018 15:49	135.19	4.08	54.9	370.9	560	521	276.77	0 RUNNING	242	224
9/5/2018 15:49	133.44	4.08	54.7	370.5	560	520	270.66	0 RUNNING	242	224
9/5/2018 15:49	134.46	4.08	54.9	370.8	560	519	274.34	0 RUNNING	242	224
9/5/2018 15:49	134.46	4.08	55.1	371	560	518	281.27	0 RUNNING	242	224
9/5/2018 15:49	134.36	4.08	54.9	370.8	560	516	276.96	0 RUNNING	242	224
9/5/2018 15:49	134.89	4.09	55.1	371	560	516	278.16	0 RUNNING	242	224
9/5/2018 15:49	134.23	4.09	55.1	371	560	517	279.44	0 RUNNING	242	224
9/5/2018 15:49	134.82	4.09	55	371	560	518	275.88	0 RUNNING	242	224
9/5/2018 15:49	135.46	4.1	55.2	371.2	560	522	277.34	0 RUNNING	242	224
9/5/2018 15:49	133.93	4.09	55	371	560	521	275.95	0 RUNNING	242	224
9/5/2018 15:49	134.94	4.1	55.1	371.1	560	522	278.43	0 RUNNING	242	224
9/5/2018 15:49	134.56	4.09	55.1	371.1	560	524	275.88	0 RUNNING	242	224
9/5/2018 15:49	134.68	4.1	55.2	371.2	560	524	276.96	0 RUNNING	242	224
9/5/2018 15:49	134.64	4.09	55.1	371.1	560	523	275.83	0 RUNNING	242	224
9/5/2018 15:49	134.51	4.09	55.2	371.2	560	522	279.37	0 RUNNING	242	224
9/5/2018 15:49	134.65	4.08	55	370.9	560	520	277.05	0 RUNNING	242	224
9/5/2018 15:49	134.91	4.09	55.1	371	560	519	276.84	0 RUNNING	242	224
9/5/2018 15:49	134.66	4.09	55.1	371	560	517	277.32	0 RUNNING	242	224
9/5/2018 15:49	134.73	4.09	55.1	371	560	517	278.6	0 RUNNING	242	224
9/5/2018 15:49	134.8	4.09	55.2	371.1	560	520	276.94	0 RUNNING	242	224
9/5/2018 15:49	134.64	4.09	55.2	371.2	560	520	277.22	0 RUNNING	242	224
9/5/2018 15:50	135.09	4.09	55.2	371.2	560	523	277.73	0 RUNNING	242	224
9/5/2018 15:50	134.51	4.09	55	371	560	521	276.1	0 RUNNING	242	224
9/5/2018 15:50	135.12	4.09	55.2	371.2	560	525	279.58	0 RUNNING	242	224
9/5/2018 15:50	134.8	4.09	55.1	371.1	560	524	278.55	0 RUNNING	242	224
9/5/2018 15:50	134.25	4.1	55.3	371.3	560	524	276.91	0 RUNNING	242	224
9/5/2018 15:50	134.79	4.1	55.3	371.3	560	522	278.69	0 RUNNING	242	224
9/5/2018 15:50	135.55	4.09	55.1	371	560	521	279.24	0 RUNNING	242	224
9/5/2018 15:50	134.46	4.1	55.1	371.2	560	518	275.59	0 RUNNING	242	224
9/5/2018 15:50	135.51	4.1	55.2	371.3	560	517	277.7	0 RUNNING	242	224
9/5/2018 15:50	134.53	4.1	55.2	371.2	560	517	276.55	0 RUNNING	242	224
9/5/2018 15:50	134.34	4.09	55.1	371.1	560	517	278.43	0 RUNNING	242	224
9/5/2018 15:50	134.46	4.09	55.1	371.1	560	518	276.96	0 RUNNING	242	224
9/5/2018 15:50	134.32	4.1	55.2	371.2	560	520	277.32	0 RUNNING	242	224
9/5/2018 15:50	134.79	4.09	55.1	371	560	522	276.19	0 RUNNING	242	224
9/5/2018 15:50	135.07	4.09	55.1	371	560	523	279.1	0 RUNNING	242	224
9/5/2018 15:50	134.32	4.08	54.9	370.8	560	522	278.57	0 RUNNING	242	224
9/5/2018 15:50	135	4.09	55.2	371.1	560	522	278.48	0 RUNNING	242	224
9/5/2018 15:50	135.15	4.09	55.1	371	560	521	278.84	0 RUNNING	242	224
9/5/2018 15:50	134.46	4.09	55.2	371.1	560	519	277.82	0 RUNNING	242	224
9/5/2018 15:50	134.8	4.09	55.1	371.1	560	517	276.86	0 RUNNING	242	224
9/5/2018 15:50	134.75	4.09	55	371	560	514	277.11	0 RUNNING	242	224
9/5/2018 15:50	134.22	4.1	55.2	371.2	560	515	277.23	0 RUNNING	242	224
9/5/2018 15:50	135.06	4.1	55.3	371.3	560	515	279.13	0 RUNNING	242	224
9/5/2018 15:50	135.04	4.09	55.2	371.1	560	515	279.18	0 RUNNING	242	224
9/5/2018 15:50	135.26	4.1	55.2	371.2	560	516	279.85	0 RUNNING	242	224
9/5/2018 15:50	135.26	4.1	55.2	371.2	560	516	279.85	0 RUNNING	242	224
9/5/2018 15:50	134.69	4.1	55.3	371.3	560	516	277.78	0 RUNNING	242	224
9/5/2018 15:50	134.22	4.09	55.1	371.1	560	517	276.22	0 RUNNING	242	224
9/5/2018 15:50	135.02	4.1	55.3	371.3	560	518	277.06	0 RUNNING	242	224
9/5/2018 15:50	134.23	4.09	55.1	371	560	515	277.7	0 RUNNING	242	224
9/5/2018 15:50	134.72	4.09	55.1	371.1	560	512	277.49	0 RUNNING	242	224
9/5/2018 15:50	135.13	4.1	55.3	371.3	560	508	278.74	0 RUNNING	242	224
9/5/2018 15:50	134.53	4.1	55.3	371.3	560	506	276.7	0 RUNNING	242	224
9/5/2018 15:50	134.68	4.1	55.2	371.2	560	502	279.46	0 RUNNING	242	224
9/5/2018 15:50	135.2	4.09	55.1	371.1	560	500	278.71	0 RUNNING	242	224
9/5/2018 15:50	134.36	4.09	55	371	560	499	275.06	0 RUNNING	242	224
9/5/2018 15:50	135.28	4.09	55.1	371	560	498	279.99	0 RUNNING	242	224
9/5/2018 15:50	134.97	4.09	55.2	371.2	560	497	279.84	0 RUNNING	242	224
9/5/2018 15:50	134.78	4.09	55.2	371.2	560	497	278.71	0 RUNNING	242	224
9/5/2018 15:50	134.82	4.1	55.2	371.3	560	498	276.38	0 RUNNING	242	224
9/5/2018 15:50	134.85	4.09	55.2	371.2	560	499	278.48	0 RUNNING	242	224

9/5/2018 15:50	134.36	4.09	55	370.9	560	497	277.75	0 RUNNING	242	224
9/5/2018 15:50	135.16	4.09	55.1	371	560	494	277.82	0 RUNNING	242	224
9/5/2018 15:50	135.62	4.09	55.2	371.2	560	492	281.2	0 RUNNING	242	224
9/5/2018 15:50	134.57	4.08	55	370.9	560	491	277.56	0 RUNNING	242	224
9/5/2018 15:50	134.48	4.08	55	370.9	560	488	278.52	0 RUNNING	242	224
9/5/2018 15:50	134.71	4.1	55.2	371.2	560	488	276.1	0 RUNNING	242	224
9/5/2018 15:50	134.75	4.09	55.1	371.1	560	488	279.39	0 RUNNING	242	224
9/5/2018 15:50	134.47	4.09	55.1	371.1	560	488	276.7	0 RUNNING	242	224
9/5/2018 15:50	135.28	4.09	55.1	371.1	560	487	280.66	0 RUNNING	242	224
9/5/2018 15:50	135.45	4.09	55.2	371.2	560	486	278.6	0 RUNNING	242	224
9/5/2018 15:50	134.53	4.1	55.3	371.3	560	487	278.74	0 RUNNING	242	224
9/5/2018 15:50	135.31	4.09	55.1	371	560	485	279.25	0 RUNNING	242	224
9/5/2018 15:50	134.47	4.09	55.1	371	560	484	277.49	0 RUNNING	242	224
9/5/2018 15:50	134.15	4.09	55.1	371.1	560	481	278.45	0 RUNNING	242	224
9/5/2018 15:50	134.48	4.1	55.2	371.2	560	478	278.55	0 RUNNING	242	224
9/5/2018 15:50	134.99	4.09	55.2	371.1	560	477	277.17	0 RUNNING	242	224
9/5/2018 15:50	134.15	4.1	55.2	371.2	560	473	276.09	0 RUNNING	242	224
9/5/2018 15:50	134.83	4.09	55.1	371.1	560	472	278	0 RUNNING	242	224
9/5/2018 15:51	134.53	4.09	55.1	371.1	560	470	279.3	0 RUNNING	242	224
9/5/2018 15:51	134.24	4.09	55.1	371.1	560	471	275.57	0 RUNNING	242	224
9/5/2018 15:51	134.88	4.1	55.3	371.3	560	474	277.06	0 RUNNING	242	224
9/5/2018 15:51	134.42	4.09	55.1	371.1	560	478	275.49	0 RUNNING	242	224
9/5/2018 15:51	135.25	4.09	55.1	371.1	560	489	277.53	0 RUNNING	242	224
9/5/2018 15:51	134.51	4.08	55.1	370.9	560	488	277.3	0 RUNNING	242	224
9/5/2018 15:51	134.22	4.09	55.1	371.1	560	483	278.21	0 RUNNING	242	224
9/5/2018 15:51	135.31	4.08	54.9	370.8	560	470	278.67	0 RUNNING	242	224
9/5/2018 15:51	134.43	4.09	55	370.9	560	454	275.78	0 RUNNING	242	224
9/5/2018 15:51	135.2	4.08	55.1	371	560	439	278.67	0 RUNNING	242	224
9/5/2018 15:51	134.53	4.08	54.9	370.8	560	425	275.56	0 RUNNING	242	224
9/5/2018 15:51	134.3	4.08	55	370.8	560	416	274.22	0 RUNNING	242	224
9/5/2018 15:51	135.11	4.09	55.1	371	560	407	277.42	0 RUNNING	242	224
9/5/2018 15:51	134.51	4.09	55.2	371.2	560	401	277.47	0 RUNNING	242	224
9/5/2018 15:51	134.27	4.09	55.1	371.1	560	398	277.58	0 RUNNING	242	224
9/5/2018 15:51	134.92	4.09	55.2	371.1	560	395	278.96	0 RUNNING	242	224
9/5/2018 15:51	134.79	4.09	55	370.9	560	393	275.4	0 RUNNING	242	224
9/5/2018 15:51	135.04	4.08	55.1	370.9	560	391	277.85	0 RUNNING	242	224
9/5/2018 15:51	134.67	4.09	55.1	371.1	560	391	279.48	0 RUNNING	242	224
9/5/2018 15:51	135.16	4.09	55.1	371	560	400	277.27	0 RUNNING	242	224
9/5/2018 15:51	135.01	4.08	55	370.9	560	405	279.63	0 RUNNING	242	224
9/5/2018 15:51	134.44	4.08	55.1	371	560	409	276.38	0 RUNNING	242	224
9/5/2018 15:51	134.96	4.09	55.2	371.1	560	405	278.79	0 RUNNING	242	224
9/5/2018 15:51	134.31	4.08	55	370.9	560	402	276.45	0 RUNNING	242	224
9/5/2018 15:51	135.03	4.09	55.1	371	560	402	278.11	0 RUNNING	242	224
9/5/2018 15:51	134.62	4.09	55.2	371.1	560	403	276.52	0 RUNNING	242	224
9/5/2018 15:51	134.49	4.08	55	370.9	560	405	275.98	0 RUNNING	242	224
9/5/2018 15:51	134.92	4.09	55.1	371	560	409	277.37	0 RUNNING	242	224
9/5/2018 15:51	134.45	4.09	55	370.9	560	415	278.33	0 RUNNING	242	224
9/5/2018 15:51	134.23	4.08	55	370.9	560	419	277.29	0 RUNNING	242	224
9/5/2018 15:51	134.9	4.09	55	371	560	420	277.39	0 RUNNING	242	224
9/5/2018 15:51	134.26	4.08	55	370.9	560	421	275.3	0 RUNNING	242	224
9/5/2018 15:51	134.35	4.08	55	370.9	560	419	279.92	0 RUNNING	242	224
9/5/2018 15:51	134.69	4.08	54.9	370.7	560	419	278.33	0 RUNNING	242	224
9/5/2018 15:51	135.27	4.07	54.9	370.6	560	422	276.79	0 RUNNING	242	224
9/5/2018 15:51	134.54	4.07	54.9	370.7	560	424	276.91	0 RUNNING	242	224
9/5/2018 15:51	135.53	4.08	55	370.8	560	430	279.2	0 RUNNING	242	224
9/5/2018 15:51	135.02	4.08	55	370.8	560	440	278.23	0 RUNNING	242	224
9/5/2018 15:51	134.76	4.08	54.9	370.8	560	450	277.94	0 RUNNING	242	224
9/5/2018 15:51	134.5	4.08	55	370.8	560	454	276.98	0 RUNNING	242	224
9/5/2018 15:51	135.21	4.07	54.9	370.7	560	453	278.77	0 RUNNING	242	224
9/5/2018 15:51	134.76	4.08	54.9	370.8	560	448	279.36	0 RUNNING	242	224
9/5/2018 15:51	135.53	4.07	54.8	370.6	560	445	278.5	0 RUNNING	242	224
9/5/2018 15:51	135.19	4.08	55	370.8	560	442	278.76	0 RUNNING	242	224
9/5/2018 15:51	134.11	4.08	54.9	370.7	560	438	275.92	0 RUNNING	242	224
9/5/2018 15:51	134.47	4.07	54.9	370.7	560	433	279.41	0 RUNNING	242	224
9/5/2018 15:51	134.7	4.09	55.1	371	560	428	279.65	0 RUNNING	242	224

9/5/2018 15:51	134.71	4.08	54.9	370.8	560	425	276.65	0 RUNNING	242	224
9/5/2018 15:51	134.91	4.08	55	370.9	560	423	279.12	0 RUNNING	242	224
9/5/2018 15:51	134.39	4.08	54.9	370.8	560	422	275.92	0 RUNNING	242	224
9/5/2018 15:51	134.46	4.08	55	370.9	560	422	278.23	0 RUNNING	242	224
9/5/2018 15:51	133.96	4.08	55	370.9	560	422	276.31	0 RUNNING	242	224
9/5/2018 15:51	135.28	4.09	55.1	371	560	422	279.24	0 RUNNING	242	224
9/5/2018 15:51	134.68	4.08	55.1	370.9	560	421	277.58	0 RUNNING	242	224
9/5/2018 15:51	134.11	4.07	54.9	370.6	560	421	277.97	0 RUNNING	242	224
9/5/2018 15:51	134.48	4.08	55	370.8	560	419	278.16	0 RUNNING	242	224
9/5/2018 15:51	134.63	4.07	54.8	370.6	560	416	277.64	0 RUNNING	242	224
9/5/2018 15:51	135.18	4.07	54.9	370.7	560	415	279.46	0 RUNNING	242	224
9/5/2018 15:51	135.33	4.07	54.9	370.7	560	412	278.89	0 RUNNING	242	224
9/5/2018 15:52	133.84	4.08	54.9	370.7	560	412	273.9	0 RUNNING	242	224
9/5/2018 15:52	134.55	4.07	54.9	370.7	560	413	274.02	0 RUNNING	242	224
9/5/2018 15:52	133.91	4.07	54.6	370.4	560	413	268.17	0 RUNNING	242	224
9/5/2018 15:52	134.99	4.07	54.8	370.6	560	412	281.24	0 RUNNING	242	224
9/5/2018 15:52	134.35	4.07	54.8	370.6	560	415	277.05	0 RUNNING	242	224
9/5/2018 15:52	135.2	4.06	54.8	370.4	560	418	278.47	0 RUNNING	242	224
9/5/2018 15:52	134.54	4.07	54.9	370.7	560	421	276.6	0 RUNNING	242	224
9/5/2018 15:52	135.08	4.06	54.8	370.5	560	422	280.01	0 RUNNING	242	224
9/5/2018 15:52	135.35	4.07	54.8	370.6	560	422	279.17	0 RUNNING	242	224
9/5/2018 15:52	134.63	4.07	54.8	370.5	560	422	276.34	0 RUNNING	242	224
9/5/2018 15:52	134.28	4.07	54.9	370.7	560	421	278.11	0 RUNNING	242	224
9/5/2018 15:52	134.39	4.07	54.9	370.7	560	419	277.85	0 RUNNING	242	224
9/5/2018 15:52	134.35	4.08	54.9	370.7	560	419	279.42	0 RUNNING	242	224
9/5/2018 15:52	134.55	4.07	54.8	370.6	560	419	276.86	0 RUNNING	242	224
9/5/2018 15:52	134.44	4.06	54.6	370.3	560	420	275.87	0 RUNNING	242	224
9/5/2018 15:52	134.51	4.07	54.8	370.5	560	423	278	0 RUNNING	242	224
9/5/2018 15:52	134.75	4.06	54.7	370.4	560	424	279.24	0 RUNNING	242	224
9/5/2018 15:52	135.07	4.06	54.7	370.4	560	425	278.81	0 RUNNING	242	224
9/5/2018 15:52	135.23	4.06	54.7	370.4	560	428	277.59	0 RUNNING	242	224
9/5/2018 15:52	134.61	4.07	54.8	370.5	560	429	276.05	0 RUNNING	242	224
9/5/2018 15:52	134.57	4.06	54.7	370.4	560	429	277.27	0 RUNNING	242	224
9/5/2018 15:52	134.52	4.06	54.8	370.5	560	428	276.53	0 RUNNING	242	224
9/5/2018 15:52	134.59	4.07	54.8	370.6	560	427	277.87	0 RUNNING	242	224
9/5/2018 15:52	134.98	4.08	55	370.8	560	425	278.5	0 RUNNING	242	224
9/5/2018 15:52	134.69	4.06	54.7	370.4	560	424	278.83	0 RUNNING	242	224
9/5/2018 15:52	135.36	4.07	54.8	370.5	560	425	277.87	0 RUNNING	242	224
9/5/2018 15:52	134.2	4.06	54.8	370.5	560	426	276	0 RUNNING	242	224
9/5/2018 15:52	135.07	4.07	54.8	370.6	560	429	280.26	0 RUNNING	242	224
9/5/2018 15:52	134.61	4.07	54.8	370.5	560	434	279.1	0 RUNNING	242	224
9/5/2018 15:52	134.47	4.07	54.8	370.5	560	439	276.84	0 RUNNING	242	224
9/5/2018 15:52	134.38	4.07	54.8	370.5	560	446	275.42	0 RUNNING	242	224
9/5/2018 15:52	134.84	4.07	55	370.7	560	450	279.8	0 RUNNING	242	224
9/5/2018 15:52	135.29	4.07	54.9	370.7	560	454	279.46	0 RUNNING	242	224
9/5/2018 15:52	134.61	4.06	54.8	370.5	560	459	277.56	0 RUNNING	242	224
9/5/2018 15:52	134.88	4.07	54.8	370.6	560	461	277.51	0 RUNNING	242	224
9/5/2018 15:52	135.49	4.07	54.9	370.7	560	462	278.69	0 RUNNING	242	224
9/5/2018 15:52	134.99	4.08	54.9	370.7	560	464	279.15	0 RUNNING	242	224
9/5/2018 15:52	135.03	4.08	55	370.8	560	468	278.5	0 RUNNING	242	224
9/5/2018 15:52	134.51	4.08	54.9	370.7	560	470	277.54	0 RUNNING	242	224
9/5/2018 15:52	135.28	4.08	55	370.8	560	473	279.8	0 RUNNING	242	224
9/5/2018 15:52	134.75	4.07	54.9	370.7	560	477	278.26	0 RUNNING	242	224
9/5/2018 15:52	134.38	4.07	54.9	370.6	560	481	276.55	0 RUNNING	242	224
9/5/2018 15:52	134.55	4.07	54.9	370.7	560	485	276.75	0 RUNNING	242	224
9/5/2018 15:52	134.43	4.07	54.8	370.6	560	489	275.16	0 RUNNING	242	224
9/5/2018 15:52	135.51	4.07	54.9	370.7	560	491	280.66	0 RUNNING	242	224
9/5/2018 15:52	134.61	4.08	54.9	370.7	560	491	279.75	0 RUNNING	242	224
9/5/2018 15:52	134.27	4.07	54.8	370.6	560	493	277.46	0 RUNNING	242	224
9/5/2018 15:52	134.47	4.08	54.9	370.8	560	495	277.54	0 RUNNING	242	224
9/5/2018 15:52	135.26	4.07	54.9	370.7	560	496	278.38	0 RUNNING	242	224
9/5/2018 15:52	134.44	4.07	54.8	370.6	560	496	276.02	0 RUNNING	242	224
9/5/2018 15:52	135.6	4.07	54.9	370.7	560	498	279.22	0 RUNNING	242	224
9/5/2018 15:52	134.18	4.08	54.9	370.8	560	501	276.05	0 RUNNING	242	224
9/5/2018 15:52	134.83	4.07	54.9	370.7	560	502	279.29	0 RUNNING	242	224

9/5/2018 15:52	135.14	4.07	54.9	370.7	560	506	278.41	0 RUNNING	242	224
9/5/2018 15:52	134.53	4.07	54.8	370.5	560	509	277.56	0 RUNNING	242	224
9/5/2018 15:52	134.79	4.07	54.9	370.7	560	512	277.76	0 RUNNING	242	224
9/5/2018 15:52	134.63	4.07	54.7	370.5	560	513	275.59	0 RUNNING	242	224
9/5/2018 15:52	134.69	4.08	55	370.8	560	514	276.82	0 RUNNING	242	224
9/5/2018 15:52	135.28	4.07	54.9	370.7	560	515	279.78	0 RUNNING	242	224
9/5/2018 15:53	134.61	4.07	54.9	370.7	560	516	279.48	0 RUNNING	242	224
9/5/2018 15:53	134.31	4.06	54.7	370.4	560	517	276.19	0 RUNNING	242	224
9/5/2018 15:53	135.34	4.07	54.7	370.5	560	515	278	0 RUNNING	242	224
9/5/2018 15:53	135.2	4.07	54.8	370.5	560	514	276.16	0 RUNNING	242	224
9/5/2018 15:53	135.08	4.07	54.8	370.6	560	514	278.84	0 RUNNING	242	224
9/5/2018 15:53	134.97	4.06	54.7	370.4	560	514	278.5	0 RUNNING	242	224
9/5/2018 15:53	134.61	4.07	54.9	370.6	560	515	277.2	0 RUNNING	242	224
9/5/2018 15:53	133.93	4.07	54.8	370.6	560	516	277.27	0 RUNNING	242	224
9/5/2018 15:53	134.73	4.07	54.8	370.5	560	517	277.08	0 RUNNING	242	224
9/5/2018 15:53	134.35	4.07	54.8	370.6	560	517	277.8	0 RUNNING	242	224
9/5/2018 15:53	134.21	4.06	54.7	370.4	560	516	276.69	0 RUNNING	242	224
9/5/2018 15:53	134.83	4.07	54.7	370.5	560	516	276.87	0 RUNNING	242	224
9/5/2018 15:53	134.19	4.07	54.8	370.6	560	516	279.08	0 RUNNING	242	224
9/5/2018 15:53	133.99	4.07	54.8	370.5	560	515	276.76	0 RUNNING	242	224
9/5/2018 15:53	134.87	4.07	54.9	370.7	560	517	278.88	0 RUNNING	242	224
9/5/2018 15:53	134.68	4.07	54.8	370.6	560	518	274.87	0 RUNNING	242	224
9/5/2018 15:53	134.76	4.07	54.9	370.7	560	521	279.18	0 RUNNING	242	224
9/5/2018 15:53	134.56	4.06	54.8	370.5	560	523	278.84	0 RUNNING	242	224
9/5/2018 15:53	135.38	4.07	54.8	370.7	560	524	277.44	0 RUNNING	242	224
9/5/2018 15:53	134.52	4.07	54.9	370.7	560	526	278.36	0 RUNNING	242	224
9/5/2018 15:53	135.05	4.08	55	370.8	560	527	277.44	0 RUNNING	242	224
9/5/2018 15:53	135.12	4.08	55	370.8	560	528	278.21	0 RUNNING	242	224
9/5/2018 15:53	135.12	4.08	55	370.8	560	528	278.21	0 RUNNING	242	224
9/5/2018 15:53	134.42	4.06	54.7	370.4	560	528	277.88	0 RUNNING	242	224
9/5/2018 15:53	134.97	4.07	54.9	370.7	560	527	280.84	0 RUNNING	242	224
9/5/2018 15:53	134.55	4.07	54.9	370.7	560	525	276.57	0 RUNNING	242	224
9/5/2018 15:53	134.1	4.07	54.8	370.6	560	523	275.9	0 RUNNING	242	224
9/5/2018 15:53	134.97	4.07	54.7	370.5	560	522	276.76	0 RUNNING	242	224
9/5/2018 15:53	134.23	4.06	54.7	370.4	560	520	270.36	0 RUNNING	242	224
9/5/2018 15:53	134.71	4.07	54.8	370.6	560	520	278.38	0 RUNNING	242	224
9/5/2018 15:53	134.24	4.08	54.9	370.8	560	522	278.53	0 RUNNING	242	224
9/5/2018 15:53	134.62	4.08	55	370.8	560	524	277.42	0 RUNNING	242	224
9/5/2018 15:53	135.2	4.08	54.9	370.7	560	525	277.58	0 RUNNING	242	224
9/5/2018 15:53	134.48	4.08	54.9	370.7	560	529	277.51	0 RUNNING	242	224
9/5/2018 15:53	134.71	4.08	55	370.8	560	529	280.37	0 RUNNING	242	224
9/5/2018 15:53	135.27	4.07	54.8	370.6	560	529	279.32	0 RUNNING	242	224
9/5/2018 15:53	134.6	4.08	55	370.8	560	528	278.07	0 RUNNING	242	224
9/5/2018 15:53	135.05	4.08	55	370.8	560	529	277.76	0 RUNNING	242	224
9/5/2018 15:53	134.43	4.07	54.9	370.7	560	525	277.17	0 RUNNING	242	224
9/5/2018 15:53	134.9	4.08	55	370.9	560	524	278.5	0 RUNNING	242	224
9/5/2018 15:53	134.85	4.08	54.9	370.7	560	523	278.88	0 RUNNING	242	224
9/5/2018 15:53	135.07	4.08	55	370.8	560	524	278.28	0 RUNNING	242	224
9/5/2018 15:53	134.69	4.08	54.9	370.8	560	525	277.78	0 RUNNING	242	224
9/5/2018 15:53	135.09	4.08	55	370.8	560	527	279.92	0 RUNNING	242	224
9/5/2018 15:53	134.16	4.09	54.9	370.9	560	528	276.05	0 RUNNING	242	224
9/5/2018 15:53	135.26	4.08	54.9	370.8	560	529	278.36	0 RUNNING	242	224
9/5/2018 15:53	134.89	4.08	54.9	370.8	560	530	278.91	0 RUNNING	242	224
9/5/2018 15:53	134.97	4.08	55	370.9	560	531	278.57	0 RUNNING	242	224
9/5/2018 15:53	134.61	4.08	55	370.9	560	530	277.66	0 RUNNING	242	224
9/5/2018 15:53	134.44	4.08	55	370.8	560	528	279.32	0 RUNNING	242	224
9/5/2018 15:53	135.04	4.08	55	370.8	560	527	280.11	0 RUNNING	242	224
9/5/2018 15:53	134.91	4.08	55	370.9	560	526	278.33	0 RUNNING	242	224
9/5/2018 15:53	135.02	4.09	55.1	371	560	527	275.92	0 RUNNING	242	224
9/5/2018 15:53	134.45	4.09	55	370.9	560	526	276.58	0 RUNNING	242	224
9/5/2018 15:53	134.99	4.09	55.1	371	560	528	278.59	0 RUNNING	242	224
9/5/2018 15:53	134.75	4.09	55	371	560	528	277.53	0 RUNNING	242	224
9/5/2018 15:53	134.27	4.09	55.1	371	560	530	277.61	0 RUNNING	242	224
9/5/2018 15:53	134.63	4.09	55	370.9	560	532	279.49	0 RUNNING	242	224
9/5/2018 15:53	134.64	4.09	55	371	560	532	277.17	0 RUNNING	242	224

9/5/2018 15:54	134.27	4.09	55	371	560	533	279.63	0 RUNNING	242	224
9/5/2018 15:54	134.5	4.09	55	371	560	532	278.47	0 RUNNING	242	224
9/5/2018 15:54	134.81	4.09	55.1	371	560	532	278.55	0 RUNNING	242	224
9/5/2018 15:54	134.57	4.08	54.9	370.8	560	530	275.69	0 RUNNING	242	224
9/5/2018 15:54	135.02	4.08	55	370.8	560	529	278.98	0 RUNNING	242	224
9/5/2018 15:54	135.03	4.09	55	371	560	526	279.85	0 RUNNING	242	224
9/5/2018 15:54	134.94	4.09	55.1	371	560	527	278.91	0 RUNNING	242	224
9/5/2018 15:54	134.29	4.1	55.1	371.2	560	528	276.86	0 RUNNING	242	224
9/5/2018 15:54	135.47	4.09	55.1	371.1	560	528	280.45	0 RUNNING	242	224
9/5/2018 15:54	135.29	4.1	55.2	371.2	560	531	280.54	0 RUNNING	242	224
9/5/2018 15:54	134.25	4.09	55.1	371	560	533	277.3	0 RUNNING	242	224
9/5/2018 15:54	134.77	4.1	55.2	371.3	560	534	278.91	0 RUNNING	242	224
9/5/2018 15:54	135.52	4.1	55.2	371.2	560	536	281.24	0 RUNNING	242	224
9/5/2018 15:54	134.4	4.1	55.1	371.2	560	534	277.56	0 RUNNING	242	224
9/5/2018 15:54	135.13	4.09	55.1	371.1	560	533	279.22	0 RUNNING	242	224
9/5/2018 15:54	135.24	4.09	55.1	371.1	560	532	280.21	0 RUNNING	242	224
9/5/2018 15:54	135.35	4.1	55.2	371.2	560	529	280.49	0 RUNNING	242	224
9/5/2018 15:54	135.47	4.09	55.1	371	560	528	281.31	0 RUNNING	242	224
9/5/2018 15:54	134.87	4.09	55.1	371.1	560	527	280.67	0 RUNNING	242	224
9/5/2018 15:54	134.96	4.09	55.1	371.1	560	530	279.34	0 RUNNING	242	224
9/5/2018 15:54	134.74	4.1	55.1	371.2	560	530	279.24	0 RUNNING	242	224
9/5/2018 15:54	134.86	4.1	55.1	371.1	560	532	280.25	0 RUNNING	242	224
9/5/2018 15:54	135.01	4.11	55.2	371.3	560	534	279.48	0 RUNNING	242	224
9/5/2018 15:54	134.27	4.1	55.2	371.2	560	535	278.43	0 RUNNING	242	224
9/5/2018 15:54	134.48	4.1	55.2	371.3	560	536	279.36	0 RUNNING	242	224
9/5/2018 15:54	135.35	4.11	55.2	371.3	560	535	278.4	0 RUNNING	242	224
9/5/2018 15:54	134.32	4.11	55.3	371.5	560	534	279.13	0 RUNNING	242	224
9/5/2018 15:54	134.38	4.1	55.2	371.2	560	532	278.45	0 RUNNING	242	224
9/5/2018 15:54	135.34	4.11	55.2	371.3	560	531	279.2	0 RUNNING	242	224
9/5/2018 15:54	133.7	4.11	55.2	371.3	560	530	278.48	0 RUNNING	242	224
9/5/2018 15:54	134.79	4.11	55.3	371.4	560	530	280.4	0 RUNNING	242	224
9/5/2018 15:54	134.21	4.1	55.1	371.2	560	529	275.81	0 RUNNING	242	224
9/5/2018 15:54	134.52	4.11	55.3	371.5	560	531	279.13	0 RUNNING	242	224
9/5/2018 15:54	134.6	4.11	55.1	371.3	560	532	278.89	0 RUNNING	242	224
9/5/2018 15:54	134.41	4.12	55.3	371.5	560	534	278.02	0 RUNNING	242	224
9/5/2018 15:54	135	4.12	55.3	371.5	560	536	279.01	0 RUNNING	242	224
9/5/2018 15:54	134.73	4.11	55.3	371.5	560	536	278.48	0 RUNNING	242	224
9/5/2018 15:54	135.3	4.12	55.3	371.5	560	536	279.94	0 RUNNING	242	224
9/5/2018 15:54	134.36	4.11	55.2	371.4	560	535	277.83	0 RUNNING	242	224
9/5/2018 15:54	134.96	4.11	55.2	371.4	560	534	278.89	0 RUNNING	242	224
9/5/2018 15:54	134.31	4.12	55.3	371.6	560	533	278.48	0 RUNNING	242	224
9/5/2018 15:54	134.89	4.12	55.4	371.6	560	531	279.22	0 RUNNING	242	224
9/5/2018 15:54	134.89	4.13	55.5	371.8	560	530	278.93	0 RUNNING	242	224
9/5/2018 15:54	135.34	4.13	55.5	371.8	560	530	280.96	0 RUNNING	242	224
9/5/2018 15:54	134.06	4.12	55.3	371.6	560	531	276.99	0 RUNNING	242	224
9/5/2018 15:54	134.67	4.12	55.4	371.6	560	533	278.16	0 RUNNING	242	224
9/5/2018 15:54	134.26	4.12	55.3	371.6	560	534	278.38	0 RUNNING	242	224
9/5/2018 15:54	135.14	4.12	55.4	371.7	560	536	280.21	0 RUNNING	242	224
9/5/2018 15:54	134.32	4.13	55.4	371.7	560	536	278.5	0 RUNNING	242	224
9/5/2018 15:54	134.91	4.12	55.4	371.7	560	538	281.17	0 RUNNING	242	224
9/5/2018 15:54	135.05	4.12	55.3	371.6	560	535	280.31	0 RUNNING	242	224
9/5/2018 15:54	134.72	4.13	55.4	371.7	560	534	279.39	0 RUNNING	242	224
9/5/2018 15:54	134.69	4.13	55.4	371.7	560	533	280.88	0 RUNNING	242	224
9/5/2018 15:54	134.36	4.13	55.5	371.8	560	531	279.05	0 RUNNING	242	224
9/5/2018 15:54	135.1	4.13	55.5	371.9	560	531	279.08	0 RUNNING	242	224
9/5/2018 15:54	134.46	4.13	55.4	371.8	560	532	279.77	0 RUNNING	242	224
9/5/2018 15:54	135.01	4.13	55.4	371.8	560	531	279.53	0 RUNNING	242	224
9/5/2018 15:54	135.1	4.14	55.6	372	560	533	282.21	0 RUNNING	242	224
9/5/2018 15:54	134.87	4.13	55.5	371.8	560	535	281.31	0 RUNNING	242	224
9/5/2018 15:55	134.86	4.13	55.5	371.9	560	537	280.18	0 RUNNING	242	224
9/5/2018 15:55	134.76	4.13	55.4	371.8	560	537	280.5	0 RUNNING	242	224
9/5/2018 15:55	135.07	4.13	55.4	371.8	560	538	280.55	0 RUNNING	242	224
9/5/2018 15:55	134.55	4.13	55.4	371.8	560	536	280.11	0 RUNNING	242	224
9/5/2018 15:55	134.87	4.13	55.4	373.6	560	535	280.02	0 RUNNING	242	224
9/5/2018 15:55	134.73	4.14	55.6	373.8	560	534	281.41	0 RUNNING	242	224

9/5/2018 15:55	134.82	4.14	55.6	373.8	560	532	279.6	0 RUNNING	242	224
9/5/2018 15:55	134.91	4.14	55.6	373.9	560	532	280.11	0 RUNNING	242	224
9/5/2018 15:55	134.78	4.14	55.5	373.7	560	532	280.11	0 RUNNING	242	224
9/5/2018 15:55	134.45	4.13	55.4	373.6	560	531	278.72	0 RUNNING	242	224
9/5/2018 15:55	134.39	4.14	55.5	373.8	560	533	279.07	0 RUNNING	242	224
9/5/2018 15:55	134.72	4.14	55.5	373.7	560	534	280.31	0 RUNNING	242	224
9/5/2018 15:55	134.92	4.14	55.5	373.8	560	536	279.6	0 RUNNING	242	224
9/5/2018 15:55	134.41	4.15	55.6	373.8	560	537	278.48	0 RUNNING	242	224
9/5/2018 15:55	135.51	4.14	55.6	372	560	538	280.9	0 RUNNING	242	224
9/5/2018 15:55	135.34	4.15	55.7	372.2	560	538	279.82	0 RUNNING	242	224
9/5/2018 15:55	134.96	4.15	55.7	372.2	560	535	282.85	0 RUNNING	242	224
9/5/2018 15:55	134.43	4.14	55.5	371.9	560	534	278.48	0 RUNNING	242	224
9/5/2018 15:55	135.35	4.14	55.6	372.1	560	533	282.16	0 RUNNING	242	224
9/5/2018 15:55	135.06	4.14	55.5	372	560	532	282.09	0 RUNNING	242	224
9/5/2018 15:55	134.44	4.15	55.6	372.1	560	531	279.77	0 RUNNING	242	224
9/5/2018 15:55	135.2	4.15	55.6	372.2	560	532	281.92	0 RUNNING	242	224
9/5/2018 15:55	134.56	4.15	55.7	372.2	560	534	281.24	0 RUNNING	242	224
9/5/2018 15:55	134.93	4.15	55.6	372.1	560	534	279.48	0 RUNNING	242	224
9/5/2018 15:55	134.53	4.16	55.7	374	560	536	276.77	0 RUNNING	242	224
9/5/2018 15:55	134.56	4.15	55.7	374	560	538	280.96	0 RUNNING	242	224
9/5/2018 15:55	134.77	4.15	55.7	374	560	538	280.78	0 RUNNING	242	224
9/5/2018 15:55	135	4.15	55.7	374	560	538	280.81	0 RUNNING	242	224
9/5/2018 15:55	134.27	4.15	55.6	373.9	560	536	280.49	0 RUNNING	242	224
9/5/2018 15:55	134.23	4.16	55.7	374.1	560	535	281.29	0 RUNNING	242	224
9/5/2018 15:55	134.9	4.16	55.8	374.2	560	534	278.67	0 RUNNING	242	224
9/5/2018 15:55	134.51	4.16	55.8	374.1	560	531	282.56	0 RUNNING	242	224
9/5/2018 15:55	134.26	4.15	55.6	373.9	560	531	280.69	0 RUNNING	242	224
9/5/2018 15:55	135.08	4.16	55.7	374.1	560	532	281.39	0 RUNNING	242	224
9/5/2018 15:55	135.02	4.17	55.8	374.2	560	532	282.26	0 RUNNING	242	224
9/5/2018 15:55	134.52	4.16	55.7	374	560	535	279.01	0 RUNNING	242	224
9/5/2018 15:55	135.17	4.17	55.8	374.3	560	536	282.4	0 RUNNING	242	224
9/5/2018 15:55	134.86	4.16	55.9	374.2	560	538	280.78	0 RUNNING	242	224
9/5/2018 15:55	134.47	4.17	56	374.4	560	538	281.17	0 RUNNING	242	224
9/5/2018 15:55	135.09	4.18	55.9	374.5	560	538	282.13	0 RUNNING	242	224
9/5/2018 15:55	134.49	4.16	55.8	374.2	560	536	280.69	0 RUNNING	242	224
9/5/2018 15:55	135.09	4.17	55.9	374.3	560	535	280.69	0 RUNNING	242	224
9/5/2018 15:55	134.65	4.17	56	374.4	560	534	281.53	0 RUNNING	242	224
9/5/2018 15:55	134.6	4.17	55.8	374.3	560	532	282.4	0 RUNNING	242	224
9/5/2018 15:55	134.21	4.18	56	374.6	560	532	280.91	0 RUNNING	242	224
9/5/2018 15:55	134.54	4.18	56	374.6	560	532	278.52	0 RUNNING	242	224
9/5/2018 15:55	134.87	4.18	56.1	374.7	560	533	279.84	0 RUNNING	242	224
9/5/2018 15:55	134.63	4.17	56	374.5	560	535	280.71	0 RUNNING	242	224
9/5/2018 15:55	135.3	4.18	56	374.5	560	537	282.3	0 RUNNING	242	224
9/5/2018 15:55	134.32	4.17	55.9	374.4	560	538	279.36	0 RUNNING	242	224
9/5/2018 15:55	134.71	4.18	56	374.6	560	538	281.91	0 RUNNING	242	224
9/5/2018 15:55	134.9	4.17	55.9	374.4	560	537	280.37	0 RUNNING	242	224
9/5/2018 15:55	134.6	4.18	56.1	374.7	560	539	279.82	0 RUNNING	242	224
9/5/2018 15:55	134.98	4.18	56	374.5	560	536	281.1	0 RUNNING	242	224
9/5/2018 15:55	134.34	4.18	56	374.6	560	533	280.26	0 RUNNING	242	224
9/5/2018 15:55	134.99	4.18	56	374.6	560	532	281.1	0 RUNNING	242	224
9/5/2018 15:55	134.59	4.19	56.1	374.8	560	531	281.79	0 RUNNING	242	224
9/5/2018 15:55	134.35	4.18	56	374.6	560	532	281.07	0 RUNNING	242	224
9/5/2018 15:55	134.8	4.19	56.2	374.9	560	533	281.36	0 RUNNING	242	224
9/5/2018 15:55	134.37	4.18	56.1	374.7	560	534	279.39	0 RUNNING	242	224
9/5/2018 15:56	134.67	4.18	56.1	374.7	560	535	279.82	0 RUNNING	242	224
9/5/2018 15:56	134.88	4.19	56.2	374.9	560	537	280.35	0 RUNNING	242	224
9/5/2018 15:56	134.93	4.18	56	374.6	560	538	279.22	0 RUNNING	242	224
9/5/2018 15:56	134.43	4.18	56.1	374.6	560	538	279.84	0 RUNNING	242	224
9/5/2018 15:56	135.1	4.19	56.2	374.8	560	537	281.19	0 RUNNING	242	224
9/5/2018 15:56	134.6	4.19	56.2	374.8	560	535	279.53	0 RUNNING	242	224
9/5/2018 15:56	134.76	4.18	56.1	374.7	560	535	279.48	0 RUNNING	242	224
9/5/2018 15:56	134.71	4.19	56.2	374.8	560	533	279.87	0 RUNNING	242	224
9/5/2018 15:56	134.86	4.19	56.1	374.8	560	530	281.03	0 RUNNING	242	224
9/5/2018 15:56	134.76	4.19	56.2	374.8	560	532	280.86	0 RUNNING	242	224
9/5/2018 15:56	134.82	4.19	56.3	374.9	560	532	279.82	0 RUNNING	242	224

9/5/2018 15:56	134.78	4.2	56.3	375	560	534	282.01	0 RUNNING	242	224
9/5/2018 15:56	134.7	4.19	56.1	374.8	560	535	280.23	0 RUNNING	242	224
9/5/2018 15:56	134.57	4.19	56.2	374.9	560	537	279.6	0 RUNNING	242	224
9/5/2018 15:56	134.9	4.2	56.4	375.2	560	537	281	0 RUNNING	242	224
9/5/2018 15:56	134.9	4.2	56.4	375.2	560	537	279.73	0 RUNNING	242	224
9/5/2018 15:56	135	4.19	56.2	374.9	560	537	279.73	0 RUNNING	242	224
9/5/2018 15:56	134.08	4.19	56.2	374.8	560	538	278.64	0 RUNNING	242	224
9/5/2018 15:56	134.91	4.19	56.2	374.8	560	536	279.56	0 RUNNING	242	224
9/5/2018 15:56	134.4	4.19	56.3	374.9	560	534	280.04	0 RUNNING	242	224
9/5/2018 15:56	134.87	4.19	56.1	374.8	560	531	280.96	0 RUNNING	242	224
9/5/2018 15:56	134.44	4.18	56.1	374.6	560	531	280.37	0 RUNNING	242	224
9/5/2018 15:56	135.33	4.19	56.3	375	560	531	281.94	0 RUNNING	242	224
9/5/2018 15:56	134.62	4.2	56.3	375	560	532	280.55	0 RUNNING	242	224
9/5/2018 15:56	134.33	4.19	56.2	374.9	560	533	278.45	0 RUNNING	242	224
9/5/2018 15:56	134.82	4.2	56.4	375.1	560	535	280.59	0 RUNNING	242	224
9/5/2018 15:56	135.47	4.2	56.3	375	560	535	280.31	0 RUNNING	242	224
9/5/2018 15:56	135.09	4.19	56.2	374.9	560	538	282.47	0 RUNNING	242	224
9/5/2018 15:56	135.04	4.2	56.5	375.2	560	537	280.23	0 RUNNING	242	224
9/5/2018 15:56	135.39	4.2	56.3	375	560	537	281.29	0 RUNNING	242	224
9/5/2018 15:56	134.17	4.2	56.3	375	560	535	278.48	0 RUNNING	242	224
9/5/2018 15:56	135.09	4.2	56.4	375.1	560	534	281.02	0 RUNNING	242	224
9/5/2018 15:56	134.92	4.2	56.5	375.2	560	533	281.85	0 RUNNING	242	224
9/5/2018 15:56	134.67	4.2	56.4	375.1	560	531	279.03	0 RUNNING	242	224
9/5/2018 15:56	134.85	4.2	56.4	375.1	560	530	278.21	0 RUNNING	242	224
9/5/2018 15:56	134.78	4.2	56.4	375.1	560	532	281.65	0 RUNNING	242	224
9/5/2018 15:56	134.97	4.2	56.4	375.1	560	533	280.09	0 RUNNING	242	224
9/5/2018 15:56	135.12	4.2	56.3	375	560	534	280.14	0 RUNNING	242	224
9/5/2018 15:56	135.23	4.2	56.4	375.1	560	537	281.73	0 RUNNING	242	224
9/5/2018 15:56	134.75	4.2	56.4	375.1	560	536	279.99	0 RUNNING	242	224
9/5/2018 15:56	134.61	4.2	56.4	375.1	560	538	278.79	0 RUNNING	242	224
9/5/2018 15:56	135.24	4.21	56.5	375.3	560	537	280.95	0 RUNNING	242	224
9/5/2018 15:56	134.8	4.2	56.4	375.1	560	536	281.27	0 RUNNING	242	224
9/5/2018 15:56	134.81	4.21	56.5	375.3	560	534	280.5	0 RUNNING	242	224
9/5/2018 15:56	134.48	4.2	56.4	375.1	560	532	280.02	0 RUNNING	242	224
9/5/2018 15:56	134.86	4.21	56.5	375.3	560	531	281.14	0 RUNNING	242	224
9/5/2018 15:56	134.44	4.2	56.4	375.1	560	531	277.83	0 RUNNING	242	224
9/5/2018 15:56	135.07	4.2	56.5	375.2	560	531	281.24	0 RUNNING	242	224
9/5/2018 15:56	135.05	4.21	56.5	375.3	560	533	279.89	0 RUNNING	242	224
9/5/2018 15:56	135.33	4.2	56.4	375.2	560	534	280.07	0 RUNNING	242	224
9/5/2018 15:56	134.31	4.2	56.4	375.1	560	535	278.45	0 RUNNING	242	224
9/5/2018 15:56	134.94	4.2	56.4	375.1	560	537	279.75	0 RUNNING	242	224
9/5/2018 15:56	134.65	4.2	56.5	375.2	560	537	277.85	0 RUNNING	242	224
9/5/2018 15:56	134.92	4.19	56.4	375	560	536	279.32	0 RUNNING	242	224
9/5/2018 15:56	135.33	4.2	56.4	375.1	560	537	277.7	0 RUNNING	242	224
9/5/2018 15:56	134.94	4.21	56.5	375.3	560	533	279.84	0 RUNNING	242	224
9/5/2018 15:56	133.63	4.2	56.4	375.1	560	532	277.11	0 RUNNING	242	224
9/5/2018 15:56	134.94	4.21	56.7	375.5	560	532	279.84	0 RUNNING	242	224
9/5/2018 15:56	134.69	4.2	56.5	375.2	560	530	277.8	0 RUNNING	242	224
9/5/2018 15:57	134.5	4.2	56.5	375.3	560	531	278.59	0 RUNNING	242	224
9/5/2018 15:57	134.75	4.21	56.5	375.2	560	531	279.01	0 RUNNING	242	224
9/5/2018 15:57	134.39	4.21	56.6	375.4	560	533	280.01	0 RUNNING	242	224
9/5/2018 15:57	134.93	4.21	56.5	375.3	560	534	279.15	0 RUNNING	242	224
9/5/2018 15:57	134.31	4.2	56.5	375.3	560	536	277.68	0 RUNNING	242	224
9/5/2018 15:57	134.91	4.2	56.5	375.3	560	536	278.81	0 RUNNING	242	224
9/5/2018 15:57	135.3	4.2	56.5	375.3	560	535	281.99	0 RUNNING	242	224
9/5/2018 15:57	135.35	4.21	56.5	375.3	560	535	279.17	0 RUNNING	242	224
9/5/2018 15:57	134.64	4.2	56.5	375.3	560	534	277.95	0 RUNNING	242	224
9/5/2018 15:57	135.22	4.21	56.5	375.3	560	531	279.22	0 RUNNING	242	224
9/5/2018 15:57	134.32	4.21	56.6	375.4	560	531	279.7	0 RUNNING	242	224
9/5/2018 15:57	134.73	4.21	56.6	375.4	560	529	278.69	0 RUNNING	242	224
9/5/2018 15:57	134.28	4.21	56.4	375.2	560	527	275.03	0 RUNNING	242	224
9/5/2018 15:57	135.82	4.21	56.5	375.3	560	529	277.41	0 RUNNING	242	224
9/5/2018 15:57	134.59	4.21	56.6	375.3	560	531	281.22	0 RUNNING	242	224
9/5/2018 15:57	134.83	4.2	56.5	375.2	560	534	279.25	0 RUNNING	242	224
9/5/2018 15:57	134.77	4.21	56.4	375.2	560	534	276.6	0 RUNNING	242	224

9/5/2018 15:57	134.43	4.21	56.6	375.4	560	537	278.96	0 RUNNING	242	224
9/5/2018 15:57	134.52	4.21	56.6	375.4	560	536	278.18	0 RUNNING	242	224
9/5/2018 15:57	135.65	4.21	56.5	375.3	560	535	279.32	0 RUNNING	242	224
9/5/2018 15:57	134.42	4.21	56.6	375.4	560	534	278.18	0 RUNNING	242	224
9/5/2018 15:57	135.01	4.22	56.7	375.6	560	532	278.35	0 RUNNING	242	224
9/5/2018 15:57	134.42	4.22	56.7	375.5	560	531	278.5	0 RUNNING	242	224
9/5/2018 15:57	134.79	4.22	56.8	375.6	560	532	281.26	0 RUNNING	242	224
9/5/2018 15:57	134.29	4.21	56.6	375.4	560	531	280.47	0 RUNNING	242	224
9/5/2018 15:57	135.05	4.22	56.7	375.6	560	531	278.86	0 RUNNING	242	224
9/5/2018 15:57	134.29	4.22	56.7	375.6	560	533	280.04	0 RUNNING	242	224
9/5/2018 15:57	134.42	4.22	56.8	375.7	560	535	279.12	0 RUNNING	242	224
9/5/2018 15:57	135	4.22	56.7	375.6	560	537	278.81	0 RUNNING	242	224
9/5/2018 15:57	134.25	4.22	56.7	375.5	560	537	279.7	0 RUNNING	242	224
9/5/2018 15:57	135.21	4.23	56.8	375.7	560	537	280.3	0 RUNNING	242	224
9/5/2018 15:57	135	4.22	56.8	375.7	560	537	280.25	0 RUNNING	242	224
9/5/2018 15:57	134.4	4.23	56.8	375.7	560	536	279.95	0 RUNNING	242	224
9/5/2018 15:57	135.2	4.22	56.7	375.6	560	534	280.64	0 RUNNING	242	224
9/5/2018 15:57	134.93	4.22	56.7	375.5	560	532	282.45	0 RUNNING	242	224
9/5/2018 15:57	134.77	4.22	56.7	375.7	560	531	279.6	0 RUNNING	242	224
9/5/2018 15:57	135.3	4.22	56.7	375.6	560	531	280.67	0 RUNNING	242	224
9/5/2018 15:57	134.31	4.23	56.7	377.4	560	530	279.07	0 RUNNING	242	224
9/5/2018 15:57	134.47	4.23	56.9	377.6	560	534	280.38	0 RUNNING	242	224
9/5/2018 15:57	134.47	4.23	56.7	377.5	560	535	279.77	0 RUNNING	242	224
9/5/2018 15:57	135.11	4.23	56.8	377.5	560	536	280.9	0 RUNNING	242	224
9/5/2018 15:57	135.03	4.23	56.9	377.6	560	538	283.17	0 RUNNING	242	224
9/5/2018 15:57	134.62	4.23	56.7	377.4	560	538	279.92	0 RUNNING	242	224
9/5/2018 15:57	134.73	4.23	56.8	377.5	560	538	280.43	0 RUNNING	242	224
9/5/2018 15:57	134.78	4.23	56.8	377.5	560	536	281.87	0 RUNNING	242	224
9/5/2018 15:57	134.63	4.23	56.7	377.5	560	533	280.86	0 RUNNING	242	224
9/5/2018 15:57	134.42	4.23	56.7	377.4	560	533	280.18	0 RUNNING	242	224
9/5/2018 15:57	135.43	4.23	56.7	375.7	560	531	281.99	0 RUNNING	242	224
9/5/2018 15:57	134.35	4.22	56.7	375.6	560	531	278.64	0 RUNNING	242	224
9/5/2018 15:57	134.44	4.22	56.5	375.4	560	530	280.43	0 RUNNING	242	224
9/5/2018 15:57	134.86	4.23	56.7	375.7	560	532	280.59	0 RUNNING	242	224
9/5/2018 15:57	134.69	4.23	56.7	375.7	560	535	280.3	0 RUNNING	242	224
9/5/2018 15:57	134.53	4.22	56.7	375.6	560	536	278.3	0 RUNNING	242	224
9/5/2018 15:57	134.91	4.22	56.7	375.6	560	537	281.91	0 RUNNING	242	224
9/5/2018 15:57	135.13	4.22	56.7	375.6	560	538	280.54	0 RUNNING	242	224
9/5/2018 15:57	134.69	4.23	56.8	375.7	560	537	280.57	0 RUNNING	242	224
9/5/2018 15:57	134.65	4.23	56.8	375.7	560	536	281.22	0 RUNNING	242	224
9/5/2018 15:57	134.3	4.23	56.8	375.7	560	534	280.09	0 RUNNING	242	224
9/5/2018 15:57	134.78	4.23	56.8	375.7	560	533	282.66	0 RUNNING	242	224
9/5/2018 15:58	134.96	4.22	56.6	375.5	560	531	280.18	0 RUNNING	242	224
9/5/2018 15:58	135.22	4.22	56.7	375.6	560	531	281.15	0 RUNNING	242	224
9/5/2018 15:58	134.72	4.22	56.5	375.5	560	530	278.84	0 RUNNING	242	224
9/5/2018 15:58	135.32	4.22	56.7	375.6	560	533	281.96	0 RUNNING	242	224
9/5/2018 15:58	134.79	4.22	56.7	375.6	560	535	279.99	0 RUNNING	242	224
9/5/2018 15:58	134.03	4.22	56.6	375.6	560	536	279.22	0 RUNNING	242	224
9/5/2018 15:58	135.33	4.23	56.8	375.8	560	537	280.59	0 RUNNING	242	224
9/5/2018 15:58	135.08	4.23	56.8	375.8	560	537	282.33	0 RUNNING	242	224
9/5/2018 15:58	134.46	4.23	56.8	377.5	560	537	279.77	0 RUNNING	242	224
9/5/2018 15:58	134.53	4.23	56.8	377.5	560	537	280.49	0 RUNNING	242	224
9/5/2018 15:58	135.02	4.23	56.8	377.5	560	534	280.93	0 RUNNING	242	224
9/5/2018 15:58	134.81	4.24	56.9	377.7	560	533	279.03	0 RUNNING	242	224
9/5/2018 15:58	134.79	4.23	56.7	377.4	560	532	282.28	0 RUNNING	242	224
9/5/2018 15:58	135.03	4.23	56.9	377.6	560	532	280.25	0 RUNNING	242	224
9/5/2018 15:58	134.44	4.23	56.8	377.6	560	531	280.3	0 RUNNING	242	224
9/5/2018 15:58	135.15	4.23	56.9	377.6	560	532	281.58	0 RUNNING	242	224
9/5/2018 15:58	134.87	4.23	56.7	377.5	560	534	280.49	0 RUNNING	242	224
9/5/2018 15:58	135.07	4.23	56.7	377.4	560	535	278.57	0 RUNNING	242	224
9/5/2018 15:58	134.62	4.23	56.9	377.7	560	537	281.26	0 RUNNING	242	224
9/5/2018 15:58	134.35	4.23	56.8	377.5	560	537	280.19	0 RUNNING	242	224
9/5/2018 15:58	134.77	4.23	56.8	377.6	560	536	282.16	0 RUNNING	242	224
9/5/2018 15:58	134.87	4.23	56.9	377.6	560	536	281.61	0 RUNNING	242	224
9/5/2018 15:58	134.74	4.23	56.8	377.5	560	534	279.99	0 RUNNING	242	224

9/5/2018 15:58	134.82	4.23	56.8	377.5	560	532	281.26	0 RUNNING	242	224
9/5/2018 15:58	134.77	4.23	56.8	377.4	560	531	282.2	0 RUNNING	242	224
9/5/2018 15:58	134.53	4.23	56.8	377.6	560	531	277.1	0 RUNNING	242	224
9/5/2018 15:58	135.45	4.24	56.9	377.7	560	531	281.14	0 RUNNING	242	224
9/5/2018 15:58	135.09	4.24	57	377.8	560	532	281.02	0 RUNNING	242	224
9/5/2018 15:58	134.44	4.23	56.8	377.6	560	533	279.27	0 RUNNING	242	224
9/5/2018 15:58	134.79	4.24	57	377.7	560	535	280.5	0 RUNNING	242	224
9/5/2018 15:58	135.53	4.22	56.7	377.4	560	536	280.55	0 RUNNING	242	224
9/5/2018 15:58	134.39	4.23	56.8	377.5	560	536	280.72	0 RUNNING	242	224
9/5/2018 15:58	135.37	4.23	56.8	377.5	560	537	280.26	0 RUNNING	242	224
9/5/2018 15:58	134.74	4.23	56.7	377.5	560	535	278.67	0 RUNNING	242	224
9/5/2018 15:58	135.01	4.23	56.8	377.6	560	535	277.51	0 RUNNING	242	224
9/5/2018 15:58	135.34	4.23	56.9	377.6	560	532	282.33	0 RUNNING	242	224
9/5/2018 15:58	135.07	4.23	56.8	377.5	560	531	281.08	0 RUNNING	242	224
9/5/2018 15:58	135.09	4.22	56.7	377.4	560	530	279.41	0 RUNNING	242	224
9/5/2018 15:58	134.96	4.22	56.7	377.4	560	530	280.91	0 RUNNING	242	224
9/5/2018 15:58	134.65	4.22	56.8	377.4	560	531	279.08	0 RUNNING	242	224
9/5/2018 15:58	134.69	4.22	56.8	377.5	560	532	282.13	0 RUNNING	242	224
9/5/2018 15:58	134.65	4.23	56.9	377.7	560	534	278.18	0 RUNNING	242	224
9/5/2018 15:58	135.17	4.23	56.9	377.6	560	535	276.48	0 RUNNING	242	224
9/5/2018 15:58	135.48	4.23	56.9	377.6	560	536	280.64	0 RUNNING	242	224
9/5/2018 15:58	134.46	4.23	56.9	377.6	560	535	281.6	0 RUNNING	242	224
9/5/2018 15:58	134.92	4.24	56.9	377.7	560	533	279.58	0 RUNNING	242	224
9/5/2018 15:58	134.44	4.24	57	377.7	560	534	279.32	0 RUNNING	242	224
9/5/2018 15:58	134.65	4.24	57	377.8	560	531	279.22	0 RUNNING	242	224
9/5/2018 15:58	135.03	4.23	56.8	377.5	560	530	277.76	0 RUNNING	242	224
9/5/2018 15:58	134.61	4.23	56.9	377.6	560	529	279.34	0 RUNNING	242	224
9/5/2018 15:58	134.77	4.23	56.9	377.6	560	529	279.82	0 RUNNING	242	224
9/5/2018 15:58	135.02	4.23	57	377.7	560	531	281.55	0 RUNNING	242	224
9/5/2018 15:58	133.95	4.22	56.6	377.3	560	530	275.25	0 RUNNING	242	224
9/5/2018 15:58	134.81	4.23	56.9	377.7	560	533	279.58	0 RUNNING	242	224
9/5/2018 15:58	134.54	4.22	56.8	377.5	560	535	278.71	0 RUNNING	242	224
9/5/2018 15:58	134.8	4.22	56.7	377.3	560	535	277.83	0 RUNNING	242	224
9/5/2018 15:58	135.17	4.23	56.9	377.6	560	535	280.57	0 RUNNING	242	224
9/5/2018 15:58	135.27	4.23	57	377.7	560	534	279.65	0 RUNNING	242	224
9/5/2018 15:58	134.55	4.23	57	377.7	560	533	279.49	0 RUNNING	242	224
9/5/2018 15:59	134.35	4.23	56.9	377.6	560	531	278.14	0 RUNNING	242	224
9/5/2018 15:59	135.22	4.23	56.9	377.6	560	529	281.03	0 RUNNING	242	224
9/5/2018 15:59	134.2	4.23	56.9	377.6	560	527	279.7	0 RUNNING	242	224
9/5/2018 15:59	134.78	4.23	56.8	377.5	560	527	279	0 RUNNING	242	224
9/5/2018 15:59	135.04	4.23	56.9	377.6	560	529	278.3	0 RUNNING	242	224
9/5/2018 15:59	134.52	4.23	57	377.6	560	531	277.18	0 RUNNING	242	224
9/5/2018 15:59	134.32	4.23	57	377.7	560	531	278.4	0 RUNNING	242	224
9/5/2018 15:59	134.92	4.23	57	377.7	560	534	279.78	0 RUNNING	242	224
9/5/2018 15:59	134.94	4.23	56.9	377.6	560	533	279.18	0 RUNNING	242	224
9/5/2018 15:59	134.82	4.23	56.9	377.5	560	534	277.76	0 RUNNING	242	224
9/5/2018 15:59	134.82	4.23	56.9	377.5	560	534	277.76	0 RUNNING	242	224
9/5/2018 15:59	134.48	4.23	56.9	377.6	560	533	278.45	0 RUNNING	242	224
9/5/2018 15:59	135.01	4.22	56.8	377.4	560	532	278.41	0 RUNNING	242	224
9/5/2018 15:59	134.38	4.23	56.9	377.6	560	531	278.28	0 RUNNING	242	224
9/5/2018 15:59	134.53	4.23	57	377.7	560	529	279.87	0 RUNNING	242	224
9/5/2018 15:59	134.25	4.22	56.8	377.4	560	527	278.07	0 RUNNING	242	224
9/5/2018 15:59	134.31	4.22	56.8	377.5	560	527	276.28	0 RUNNING	242	224
9/5/2018 15:59	134.5	4.22	56.9	377.5	560	528	277.94	0 RUNNING	242	224
9/5/2018 15:59	135.15	4.22	56.9	377.5	560	529	280.11	0 RUNNING	242	224
9/5/2018 15:59	134.64	4.22	56.8	377.4	560	530	278.47	0 RUNNING	242	224
9/5/2018 15:59	134.34	4.23	56.9	377.6	560	531	276.82	0 RUNNING	242	224
9/5/2018 15:59	134.76	4.22	56.8	377.4	560	532	276.77	0 RUNNING	242	224
9/5/2018 15:59	134.5	4.22	56.8	377.5	560	533	277.61	0 RUNNING	242	224
9/5/2018 15:59	134.1	4.22	56.8	377.4	560	532	276.62	0 RUNNING	242	224
9/5/2018 15:59	134.99	4.21	56.7	377.2	560	530	278.04	0 RUNNING	242	224
9/5/2018 15:59	134.26	4.22	56.8	377.4	560	529	276.86	0 RUNNING	242	224
9/5/2018 15:59	134.78	4.21	56.8	377.3	560	528	278.74	0 RUNNING	242	224
9/5/2018 15:59	135.07	4.21	56.7	377.3	560	526	280.23	0 RUNNING	242	224
9/5/2018 15:59	134.46	4.22	56.8	377.4	560	525	277.99	0 RUNNING	242	224

9/5/2018 15:59	134.44	4.21	56.7	377.2	560	524	275.57	0 RUNNING	242	224
9/5/2018 15:59	134.42	4.21	56.7	377.3	560	526	278.83	0 RUNNING	242	224
9/5/2018 15:59	135.44	4.21	56.7	377.2	560	527	278.21	0 RUNNING	242	224
9/5/2018 15:59	134.51	4.21	56.8	377.3	560	529	279.25	0 RUNNING	242	224
9/5/2018 15:59	134.51	4.21	56.8	377.3	560	529	277.66	0 RUNNING	242	224
9/5/2018 15:59	134.56	4.21	56.5	377.1	560	529	270.48	0 RUNNING	242	224
9/5/2018 15:59	134.95	4.21	56.8	377.3	560	530	280.91	0 RUNNING	242	224
9/5/2018 15:59	135.43	4.21	56.7	377.1	560	528	279.13	0 RUNNING	242	224
9/5/2018 15:59	134.57	4.21	56.7	377.3	560	527	278.19	0 RUNNING	242	224
9/5/2018 15:59	134.6	4.21	56.7	377.2	560	527	277.2	0 RUNNING	242	224
9/5/2018 15:59	135.02	4.21	56.7	377.1	560	524	278.43	0 RUNNING	242	224
9/5/2018 15:59	134.78	4.21	56.7	377.3	560	524	276.65	0 RUNNING	242	224
9/5/2018 15:59	134.35	4.21	56.6	377.1	560	525	277.99	0 RUNNING	242	224
9/5/2018 15:59	134.91	4.22	56.8	377.3	560	525	278.59	0 RUNNING	242	224
9/5/2018 15:59	134.41	4.21	56.8	377.3	560	527	277.03	0 RUNNING	242	224
9/5/2018 15:59	135.29	4.21	56.8	377.3	560	528	277.76	0 RUNNING	242	224
9/5/2018 15:59	135	4.21	56.8	377.2	560	531	278.55	0 RUNNING	242	224
9/5/2018 15:59	134.3	4.21	56.7	377.1	560	531	278.88	0 RUNNING	242	224
9/5/2018 15:59	134.83	4.21	56.7	377.2	560	532	276.79	0 RUNNING	242	224
9/5/2018 15:59	135.1	4.2	56.6	377.1	560	530	279.29	0 RUNNING	242	224
9/5/2018 15:59	134.96	4.21	56.7	377.2	560	527	278.4	0 RUNNING	242	224
9/5/2018 15:59	134.65	4.2	56.6	375.3	560	528	278.09	0 RUNNING	242	224
9/5/2018 15:59	134.6	4.2	56.6	375.2	560	526	278.96	0 RUNNING	242	224
9/5/2018 15:59	134.23	4.21	56.6	375.4	560	525	279	0 RUNNING	242	224
9/5/2018 15:59	134.4	4.21	56.8	375.6	560	525	279.07	0 RUNNING	242	224
9/5/2018 15:59	134.56	4.2	56.6	375.2	560	524	276.58	0 RUNNING	242	224
9/5/2018 15:59	136	4.2	56.7	375.4	560	529	282.15	0 RUNNING	242	224
9/5/2018 15:59	135.1	4.2	56.5	375.2	560	529	278.45	0 RUNNING	242	224
9/5/2018 15:59	135.08	4.2	56.6	375.3	560	530	279.92	0 RUNNING	242	224
9/5/2018 15:59	134.98	4.19	56.4	375	560	530	277.44	0 RUNNING	242	224
9/5/2018 16:00	134.65	4.2	56.5	375.2	560	530	279.15	0 RUNNING	242	224
9/5/2018 16:00	134.31	4.19	56.5	376.9	560	530	278.16	0 RUNNING	242	224
9/5/2018 16:00	135.07	4.19	56.5	376.9	560	528	278.16	0 RUNNING	242	224
9/5/2018 16:00	135.13	4.19	56.5	376.8	560	527	280.14	0 RUNNING	242	224
9/5/2018 16:00	134.77	4.19	56.4	376.8	560	525	277.56	0 RUNNING	242	224
9/5/2018 16:00	134.97	4.2	56.6	377	560	523	276.57	0 RUNNING	242	224
9/5/2018 16:00	135.46	4.2	56.6	377	560	524	279.44	0 RUNNING	242	224
9/5/2018 16:00	134.93	4.21	56.7	377.2	560	524	278.14	0 RUNNING	242	224
9/5/2018 16:00	134.51	4.19	56.5	376.8	560	525	278.26	0 RUNNING	242	224
9/5/2018 16:00	134.57	4.19	56.4	376.7	560	526	276.28	0 RUNNING	242	224
9/5/2018 16:00	135.22	4.19	56.5	376.9	560	528	277.83	0 RUNNING	242	224
9/5/2018 16:00	134.96	4.2	56.6	377.1	560	530	279.7	0 RUNNING	242	224
9/5/2018 16:00	135.36	4.2	56.6	377	560	530	280.04	0 RUNNING	242	224
9/5/2018 16:00	134.87	4.2	56.6	377	560	528	277.29	0 RUNNING	242	224
9/5/2018 16:00	134.7	4.2	56.6	376.9	560	527	278.18	0 RUNNING	242	224
9/5/2018 16:00	134.25	4.19	56.4	376.8	560	525	277.39	0 RUNNING	242	224
9/5/2018 16:00	135.38	4.18	56.3	376.6	560	522	277.34	0 RUNNING	242	224
9/5/2018 16:00	134.51	4.19	56.5	376.8	560	522	277.9	0 RUNNING	242	224
9/5/2018 16:00	134.77	4.2	56.6	377	560	521	281.24	0 RUNNING	242	224
9/5/2018 16:00	135.22	4.19	56.4	376.7	560	521	278.91	0 RUNNING	242	224
9/5/2018 16:00	134.83	4.19	56.5	376.9	560	520	278.3	0 RUNNING	242	224
9/5/2018 16:00	134.4	4.18	56.4	376.6	560	524	276.12	0 RUNNING	242	224
9/5/2018 16:00	135.06	4.18	56.3	376.5	560	523	278.67	0 RUNNING	242	224
9/5/2018 16:00	133.85	4.19	56	376.4	560	520	272.75	0 RUNNING	242	224
9/5/2018 16:00	134.16	4.18	56.3	376.6	560	525	272.6	0 RUNNING	242	224
9/5/2018 16:00	135.19	4.18	56.4	376.6	560	525	281.34	0 RUNNING	242	224
9/5/2018 16:00	135.09	4.18	56.3	376.6	560	525	277.41	0 RUNNING	242	224
9/5/2018 16:00	134.73	4.19	56.5	376.8	560	524	275.69	0 RUNNING	242	224
9/5/2018 16:00	134.3	4.19	56.4	376.7	560	524	277.78	0 RUNNING	242	224
9/5/2018 16:00	135.19	4.19	56.4	376.7	560	522	277.76	0 RUNNING	242	224
9/5/2018 16:00	134.56	4.18	56.4	376.7	560	523	276.4	0 RUNNING	242	224
9/5/2018 16:00	134.85	4.18	56.3	376.5	560	523	277.76	0 RUNNING	242	224
9/5/2018 16:00	135.15	4.18	56.4	376.6	560	524	279.73	0 RUNNING	242	224
9/5/2018 16:00	134.76	4.19	56.3	376.7	560	525	277.17	0 RUNNING	242	224
9/5/2018 16:00	134.26	4.18	56.3	376.6	560	529	276.6	0 RUNNING	242	224

9/5/2018 16:00	134.45	4.19	56.4	376.8	560	530	277.54	0 RUNNING	242	224
9/5/2018 16:00	134.81	4.2	56.6	377	560	532	279.78	0 RUNNING	242	224
9/5/2018 16:00	134.31	4.19	56.4	376.8	560	532	277.22	0 RUNNING	242	224
9/5/2018 16:00	135.04	4.19	56.5	376.8	560	530	277.76	0 RUNNING	242	224
9/5/2018 16:00	134.56	4.19	56.4	376.7	560	529	277.51	0 RUNNING	242	224
9/5/2018 16:00	135.06	4.19	56.4	376.8	560	528	281.03	0 RUNNING	242	224
9/5/2018 16:00	134.32	4.18	56.2	376.4	560	526	277.1	0 RUNNING	242	224
9/5/2018 16:00	135.26	4.18	56.2	376.4	560	526	279.82	0 RUNNING	242	224
9/5/2018 16:00	135.16	4.18	56.2	376.5	560	527	278.65	0 RUNNING	242	224
9/5/2018 16:00	134.5	4.17	56.2	376.4	560	527	276.6	0 RUNNING	242	224
9/5/2018 16:00	135.13	4.18	56.3	376.6	560	529	279.01	0 RUNNING	242	224
9/5/2018 16:00	135.69	4.18	56.2	376.5	560	529	276.45	0 RUNNING	242	224
9/5/2018 16:00	134.96	4.18	56.4	376.7	560	532	278.21	0 RUNNING	242	224
9/5/2018 16:00	134.85	4.18	56.2	376.4	560	531	277.05	0 RUNNING	242	224
9/5/2018 16:00	134.9	4.19	56.4	376.7	560	531	278.35	0 RUNNING	242	224
9/5/2018 16:00	134.98	4.18	56.4	376.6	560	531	277.27	0 RUNNING	242	224
9/5/2018 16:00	134.98	4.18	56.2	376.5	560	527	277.32	0 RUNNING	242	224
9/5/2018 16:00	134.67	4.19	56.4	376.7	560	528	276.14	0 RUNNING	242	224
9/5/2018 16:00	134.84	4.19	56.3	376.6	560	525	277.39	0 RUNNING	242	224
9/5/2018 16:00	135.58	4.19	56.4	376.7	560	526	277.01	0 RUNNING	242	224
9/5/2018 16:00	134.49	4.19	56.4	376.7	560	525	276.43	0 RUNNING	242	224
9/5/2018 16:00	134.76	4.18	56.3	376.6	560	527	277.05	0 RUNNING	242	224
9/5/2018 16:00	135.49	4.18	56.3	376.5	560	528	278.35	0 RUNNING	242	224
9/5/2018 16:00	134.84	4.18	56.2	376.5	560	529	276.77	0 RUNNING	242	224
9/5/2018 16:01	135.1	4.18	56.4	376.6	560	531	277.83	0 RUNNING	242	224
9/5/2018 16:01	134.85	4.18	56.3	376.5	560	531	276	0 RUNNING	242	224
9/5/2018 16:01	134.89	4.18	56.4	376.6	560	531	276.74	0 RUNNING	242	224
9/5/2018 16:01	135.34	4.18	56.4	376.6	560	530	278.16	0 RUNNING	242	224
9/5/2018 16:01	134.41	4.17	56.1	376.3	560	529	277.34	0 RUNNING	242	224
9/5/2018 16:01	134.59	4.18	56.3	376.5	560	526	277.03	0 RUNNING	242	224
9/5/2018 16:01	135	4.18	56.3	376.5	560	524	277.3	0 RUNNING	242	224
9/5/2018 16:01	134.54	4.18	56.3	376.5	560	523	275.85	0 RUNNING	242	224
9/5/2018 16:01	135.35	4.18	56.3	376.6	560	523	278.5	0 RUNNING	242	224
9/5/2018 16:01	135.05	4.18	56.3	376.5	560	523	279.07	0 RUNNING	242	224
9/5/2018 16:01	134.44	4.17	56.2	376.4	560	524	277.88	0 RUNNING	242	224
9/5/2018 16:01	135.24	4.17	56.3	376.5	560	526	277.78	0 RUNNING	242	224
9/5/2018 16:01	135.06	4.18	56.3	376.6	560	527	274.41	0 RUNNING	242	224
9/5/2018 16:01	130.47	4.18	55.9	376.3	560	524	267.98	0 RUNNING	242	224
9/5/2018 16:01	134.28	4.18	56.3	376.5	560	529	281.51	0 RUNNING	242	224
9/5/2018 16:01	134.28	4.17	56.2	376.4	560	526	276.79	0 RUNNING	242	224
9/5/2018 16:01	135.6	4.18	56.2	376.4	560	525	277.01	0 RUNNING	242	224
9/5/2018 16:01	134.97	4.17	56.2	376.4	560	522	277.7	0 RUNNING	242	224
9/5/2018 16:01	134.83	4.16	56.1	376.2	560	521	277.35	0 RUNNING	242	224
9/5/2018 16:01	134.59	4.17	56.2	376.4	560	521	276.52	0 RUNNING	242	224
9/5/2018 16:01	135.02	4.17	56.3	376.5	560	522	276.94	0 RUNNING	242	224
9/5/2018 16:01	134.69	4.18	56.4	376.7	560	523	276.29	0 RUNNING	242	224
9/5/2018 16:01	134.62	4.18	56.3	376.6	560	524	275.66	0 RUNNING	242	224
9/5/2018 16:01	134.75	4.18	56.3	376.6	560	527	275.92	0 RUNNING	242	224
9/5/2018 16:01	135.43	4.18	56.4	376.6	560	529	278	0 RUNNING	242	224
9/5/2018 16:01	134.84	4.18	56.3	376.6	560	529	277.32	0 RUNNING	242	224
9/5/2018 16:01	134.65	4.18	56.4	376.6	560	531	275.49	0 RUNNING	242	224
9/5/2018 16:01	135.46	4.17	56.3	376.5	560	529	278.41	0 RUNNING	242	224
9/5/2018 16:01	134.26	4.18	56.3	376.5	560	529	276.7	0 RUNNING	242	224
9/5/2018 16:01	134.93	4.17	56.2	376.4	560	525	276.77	0 RUNNING	242	224
9/5/2018 16:01	134.65	4.17	56.3	376.4	560	526	277.46	0 RUNNING	242	224
9/5/2018 16:01	134.42	4.18	56.2	376.4	560	524	275.1	0 RUNNING	242	224
9/5/2018 16:01	135.04	4.18	56.2	376.4	560	523	277.64	0 RUNNING	242	224
9/5/2018 16:01	134.54	4.18	56.3	376.6	560	525	276.76	0 RUNNING	242	224
9/5/2018 16:01	134.66	4.17	56.2	376.4	560	525	277.54	0 RUNNING	242	224
9/5/2018 16:01	134.58	4.17	56.1	376.3	560	527	274.67	0 RUNNING	242	224
9/5/2018 16:01	135.38	4.18	56.4	376.6	560	529	279.68	0 RUNNING	242	224
9/5/2018 16:01	134.78	4.18	56.2	376.4	560	530	277.83	0 RUNNING	242	224
9/5/2018 16:01	135.55	4.18	56.3	376.5	560	531	277.13	0 RUNNING	242	224
9/5/2018 16:01	133.9	4.18	56.3	376.5	560	530	276.16	0 RUNNING	242	224
9/5/2018 16:01	135.07	4.18	56.3	376.5	560	529	276.48	0 RUNNING	242	224

9/5/2018 16:01	134.24	4.18	56.2	376.5	560	527	276.29	0 RUNNING	242	224
9/5/2018 16:01	134.69	4.19	56.4	376.8	560	526	276.46	0 RUNNING	242	224
9/5/2018 16:01	134.47	4.18	56.3	376.6	560	524	278.86	0 RUNNING	242	224
9/5/2018 16:01	134.89	4.18	56.4	376.7	560	524	277.08	0 RUNNING	242	224
9/5/2018 16:01	134.99	4.18	56.3	376.5	560	524	277.13	0 RUNNING	242	224
9/5/2018 16:01	134.43	4.18	56.2	376.4	560	524	276.19	0 RUNNING	242	224
9/5/2018 16:01	134.76	4.18	56.3	376.5	560	526	276.93	0 RUNNING	242	224
9/5/2018 16:01	135.34	4.17	56.1	376.3	560	527	276.89	0 RUNNING	242	224
9/5/2018 16:01	134.3	4.16	56.1	376.2	560	528	276.4	0 RUNNING	242	224
9/5/2018 16:01	135.25	4.18	56.3	376.5	560	531	278.69	0 RUNNING	242	224
9/5/2018 16:01	134.55	4.18	56.3	376.5	560	529	277.13	0 RUNNING	242	224
9/5/2018 16:01	135.16	4.17	56.3	376.4	560	529	277.99	0 RUNNING	242	224
9/5/2018 16:01	134.4	4.18	56.3	376.5	560	526	277.3	0 RUNNING	242	224
9/5/2018 16:01	134.27	4.17	56.1	376.2	560	524	277.08	0 RUNNING	242	224
9/5/2018 16:01	134.99	4.17	56	376.2	560	522	275.85	0 RUNNING	242	224
9/5/2018 16:01	134.71	4.17	56.2	376.3	560	523	277.53	0 RUNNING	242	224
9/5/2018 16:01	134.98	4.17	56.3	376.4	560	524	279.51	0 RUNNING	242	224
9/5/2018 16:01	135.13	4.17	56.2	376.4	560	524	277.56	0 RUNNING	242	224
9/5/2018 16:01	134.96	4.17	56.1	376.2	560	526	276.29	0 RUNNING	242	224
9/5/2018 16:02	134.21	4.17	56.1	376.3	560	527	276.21	0 RUNNING	242	224
9/5/2018 16:02	135.59	4.17	56.1	376.3	560	527	278.77	0 RUNNING	242	224
9/5/2018 16:02	134.66	4.17	56.2	376.3	560	528	277.15	0 RUNNING	242	224
9/5/2018 16:02	135.4	4.17	56.3	376.4	560	529	277.73	0 RUNNING	242	224
9/5/2018 16:02	134.58	4.17	56.3	376.5	560	526	277.71	0 RUNNING	242	224
9/5/2018 16:02	134.58	4.17	56.3	376.5	560	524	277.63	0 RUNNING	242	224
9/5/2018 16:02	135.15	4.17	56.2	376.4	560	524	277.63	0 RUNNING	242	224
9/5/2018 16:02	133.93	4.18	56.3	376.5	560	522	275.95	0 RUNNING	242	224
9/5/2018 16:02	134.97	4.17	56.1	376.3	560	520	277.59	0 RUNNING	242	224
9/5/2018 16:02	134.35	4.17	56.1	376.3	560	519	273.64	0 RUNNING	242	224
9/5/2018 16:02	135.42	4.17	56.2	376.3	560	520	279	0 RUNNING	242	224
9/5/2018 16:02	134.46	4.17	56.2	376.3	560	521	277.06	0 RUNNING	242	224
9/5/2018 16:02	134.51	4.16	56.1	376.2	560	522	277.41	0 RUNNING	242	224
9/5/2018 16:02	134.85	4.17	56.2	376.4	560	522	278.28	0 RUNNING	242	224
9/5/2018 16:02	134.42	4.17	56.1	376.2	560	524	274.39	0 RUNNING	242	224
9/5/2018 16:02	134.51	4.17	56.1	376.2	560	526	277.17	0 RUNNING	242	224
9/5/2018 16:02	134.45	4.17	56.2	376.4	560	524	277.73	0 RUNNING	242	224
9/5/2018 16:02	134.91	4.18	56.3	376.5	560	523	276.93	0 RUNNING	242	224
9/5/2018 16:02	135.1	4.17	56.2	376.3	560	524	277.49	0 RUNNING	242	224
9/5/2018 16:02	135.01	4.17	56.2	376.4	560	521	278.12	0 RUNNING	242	224
9/5/2018 16:02	134.2	4.17	56.1	376.2	560	519	276.04	0 RUNNING	242	224
9/5/2018 16:02	134.71	4.17	56.2	376.3	560	517	277.59	0 RUNNING	242	224
9/5/2018 16:02	134.61	4.17	56.1	376.2	560	517	277.1	0 RUNNING	242	224
9/5/2018 16:02	134.31	4.17	56.2	376.4	560	516	278.33	0 RUNNING	242	224
9/5/2018 16:02	135.58	4.17	56.1	376.3	560	516	277.34	0 RUNNING	242	224
9/5/2018 16:02	134.46	4.17	56.2	376.3	560	518	277.06	0 RUNNING	242	224
9/5/2018 16:02	135.54	4.16	56.1	376.2	560	518	279.44	0 RUNNING	242	224
9/5/2018 16:02	135.25	4.16	56	376.1	560	515	278.47	0 RUNNING	242	224
9/5/2018 16:02	134.26	4.16	56.1	376.2	560	511	276.77	0 RUNNING	242	224
9/5/2018 16:02	135.13	4.17	56.2	376.4	560	504	276.14	0 RUNNING	242	224
9/5/2018 16:02	134.84	4.17	56.2	376.3	560	493	279.3	0 RUNNING	242	224
9/5/2018 16:02	134.66	4.17	56.2	376.3	560	477	277.95	0 RUNNING	242	224
9/5/2018 16:02	134.54	4.17	56.1	376.3	560	457	276.1	0 RUNNING	242	224
9/5/2018 16:02	134.76	4.16	56.1	376.1	560	439	278.14	0 RUNNING	242	224
9/5/2018 16:02	134.57	4.16	56.1	376.1	560	425	275.56	0 RUNNING	242	224
9/5/2018 16:02	134.84	4.16	56	376	560	413	276.76	0 RUNNING	242	224
9/5/2018 16:02	134.94	4.15	56	376	560	404	277.39	0 RUNNING	242	224
9/5/2018 16:02	134.3	4.16	56	376.1	560	396	275.73	0 RUNNING	242	224
9/5/2018 16:02	134.56	4.16	56	376	560	387	276.38	0 RUNNING	242	224
9/5/2018 16:02	135.04	4.15	56	376	560	380	278.04	0 RUNNING	242	224
9/5/2018 16:02	134.88	4.15	55.9	375.8	560	371	278.11	0 RUNNING	242	224
9/5/2018 16:02	134.68	4.15	55.9	375.8	560	363	275.28	0 RUNNING	242	224
9/5/2018 16:02	134.56	4.14	55.8	375.7	560	356	273.71	0 RUNNING	242	224
9/5/2018 16:02	135.47	4.14	55.9	375.8	560	349	279.42	0 RUNNING	242	224
9/5/2018 16:02	135.09	4.14	55.8	375.7	560	342	276.7	0 RUNNING	242	224
9/5/2018 16:02	134.15	4.15	55.9	375.8	560	337	276	0 RUNNING	242	224

9/5/2018 16:02	134.75	4.14	55.8	375.6	560	332	277.66	0 RUNNING	242	224
9/5/2018 16:02	134.66	4.14	55.8	375.7	560	328	276.87	0 RUNNING	242	224
9/5/2018 16:02	134.44	4.14	55.8	375.7	560	326	275.93	0 RUNNING	242	224
9/5/2018 16:02	134.83	4.14	55.8	375.7	560	323	275.44	0 RUNNING	242	224
9/5/2018 16:02	135.11	4.14	55.8	375.7	560	319	277.05	0 RUNNING	242	224
9/5/2018 16:02	134.2	4.13	55.6	375.4	560	315	275.11	0 RUNNING	242	224
9/5/2018 16:02	135.24	4.13	55.7	375.5	560	311	277.15	0 RUNNING	242	224
9/5/2018 16:02	134.89	4.13	55.7	375.5	560	306	277.06	0 RUNNING	242	224
9/5/2018 16:02	134.36	4.13	55.7	375.5	560	302	274.82	0 RUNNING	242	224
9/5/2018 16:02	135.59	4.14	55.9	375.8	560	298	279.01	0 RUNNING	242	224
9/5/2018 16:02	134.11	4.14	55.7	375.5	560	294	273.61	0 RUNNING	242	224
9/5/2018 16:02	134.29	4.13	55.8	375.6	560	290	275.56	0 RUNNING	242	224
9/5/2018 16:02	134.58	4.14	55.8	375.7	560	287	275.47	0 RUNNING	242	224
9/5/2018 16:03	134.34	4.13	55.5	375.4	560	283	273.3	0 RUNNING	242	224
9/5/2018 16:03	134.48	4.14	55.8	375.7	560	282	277.37	0 RUNNING	242	224
9/5/2018 16:03	133.87	4.14	55.5	375.4	560	278	274.82	0 RUNNING	242	224
9/5/2018 16:03	135.12	4.14	55.8	375.6	560	277	276.45	0 RUNNING	242	224
9/5/2018 16:03	134.41	4.14	55.8	375.7	560	275	276.67	0 RUNNING	242	224
9/5/2018 16:03	135.45	4.14	55.9	375.7	560	272	277.23	0 RUNNING	242	224
9/5/2018 16:03	134.69	4.14	55.9	375.8	560	269	276.09	0 RUNNING	242	224
9/5/2018 16:03	134.98	4.14	55.8	375.6	560	266	277.15	0 RUNNING	242	224
9/5/2018 16:03	133.92	4.14	55.7	375.6	560	262	275.25	0 RUNNING	242	224
9/5/2018 16:03	134.88	4.13	55.7	375.5	560	259	277.35	0 RUNNING	242	224
9/5/2018 16:03	135.12	4.14	55.8	375.6	560	256	277.92	0 RUNNING	242	224
9/5/2018 16:03	134.66	4.14	55.8	375.6	560	254	277.78	0 RUNNING	242	224
9/5/2018 16:03	134.52	4.14	55.8	375.6	560	252	275.87	0 RUNNING	242	224
9/5/2018 16:03	135.01	4.14	55.8	375.6	560	251	276.86	0 RUNNING	242	224
9/5/2018 16:03	134.47	4.13	55.7	375.5	560	250	275.1	0 RUNNING	242	224
9/5/2018 16:03	134.59	4.13	55.6	375.4	560	248	276.76	0 RUNNING	242	224
9/5/2018 16:03	134.38	4.12	55.5	375.2	560	246	276.4	0 RUNNING	242	224
9/5/2018 16:03	135.6	4.13	55.7	375.5	560	246	277.15	0 RUNNING	242	224
9/5/2018 16:03	134.8	4.14	55.8	375.7	560	246	275.68	0 RUNNING	242	224
9/5/2018 16:03	134.02	4.13	55.5	375.3	560	245	272.12	0 RUNNING	242	224
9/5/2018 16:03	134.19	4.12	55.6	375.3	560	244	272.43	0 RUNNING	242	224
9/5/2018 16:03	134.63	4.13	55.7	375.5	560	242	274.38	0 RUNNING	242	224
9/5/2018 16:03	134.61	4.13	55.6	375.4	560	240	275.06	0 RUNNING	242	224
9/5/2018 16:03	134.04	4.12	55.6	375.3	560	239	274.92	0 RUNNING	242	224
9/5/2018 16:03	134.46	4.12	55.5	375.3	560	238	272.67	0 RUNNING	242	224
9/5/2018 16:03	134.91	4.13	55.6	375.4	560	236	279.32	0 RUNNING	242	224
9/5/2018 16:03	134.17	4.12	55.4	375.1	560	233	273.16	0 RUNNING	242	224
9/5/2018 16:03	134.7	4.13	55.6	375.4	560	232	275.78	0 RUNNING	242	224
9/5/2018 16:03	134.82	4.11	55.3	374.9	560	230	270.9	0 RUNNING	242	224
9/5/2018 16:03	135.93	4.11	55.3	374.9	560	229	275.92	0 RUNNING	242	224
9/5/2018 16:03	135.74	4.11	55.3	375	560	225	275.44	0 RUNNING	242	224
9/5/2018 16:03	134.01	4.11	55.3	375	560	223	274.12	0 RUNNING	242	224
9/5/2018 16:03	134.68	4.11	55.5	375.1	560	222	275.01	0 RUNNING	242	224
9/5/2018 16:03	134.75	4.11	55.4	375.1	560	220	273.9	0 RUNNING	242	224
9/5/2018 16:03	134.99	4.12	55.5	375.1	560	219	274.96	0 RUNNING	242	224
9/5/2018 16:03	134.15	4.11	55.3	373.2	560	217	273.06	0 RUNNING	242	224
9/5/2018 16:03	134.96	4.11	55.4	373.2	560	217	274.96	0 RUNNING	242	224
9/5/2018 16:03	135.31	4.11	55.3	373.2	560	216	276.29	0 RUNNING	242	224
9/5/2018 16:03	133.26	4.11	55.2	373.1	560	216	273.57	0 RUNNING	242	224
9/5/2018 16:03	134.66	4.11	55.3	373.1	560	214	278.11	0 RUNNING	242	224
9/5/2018 16:03	134.98	4.11	55.3	373.1	560	216	273.73	0 RUNNING	242	224
9/5/2018 16:03	134.93	4.11	55.4	373.2	560	214	276	0 RUNNING	242	224
9/5/2018 16:03	135.44	4.11	55.4	373.2	560	213	278.83	0 RUNNING	242	224
9/5/2018 16:03	134.11	4.1	55.2	373	560	213	274.1	0 RUNNING	242	224
9/5/2018 16:03	135.36	4.1	55.3	373	560	212	277.7	0 RUNNING	242	224
9/5/2018 16:03	134.35	4.11	55.3	373.2	560	211	274.84	0 RUNNING	242	224
9/5/2018 16:03	134.49	4.11	55.4	373.2	560	210	273.76	0 RUNNING	242	224
9/5/2018 16:03	135.3	4.11	55.4	373.2	560	210	277.29	0 RUNNING	242	224
9/5/2018 16:03	134.52	4.11	55.4	373.2	560	210	274.19	0 RUNNING	242	224
9/5/2018 16:03	134.89	4.11	55.3	373.2	560	210	276.22	0 RUNNING	242	224
9/5/2018 16:03	134.23	4.1	55.3	373.1	560	209	276.16	0 RUNNING	242	224
9/5/2018 16:03	134.87	4.11	55.4	373.3	560	210	275.75	0 RUNNING	242	224

9/5/2018 16:03	134.68	4.11	55.3	373.1	560	209	275.9	0 RUNNING	242	224
9/5/2018 16:03	134.38	4.1	55.2	372.9	560	208	275.13	0 RUNNING	242	224
9/5/2018 16:03	134.9	4.1	55.3	373	560	207	277.23	0 RUNNING	242	224
9/5/2018 16:03	134.27	4.1	55.3	373.1	560	205	275.99	0 RUNNING	242	224
9/5/2018 16:03	135.13	4.1	55.3	373.1	560	204	276.64	0 RUNNING	242	224
9/5/2018 16:03	134.5	4.09	55.2	372.9	560	203	275.56	0 RUNNING	242	224
9/5/2018 16:03	134.43	4.1	55.2	373	560	201	275.11	0 RUNNING	242	224
9/5/2018 16:04	135.39	4.09	55.1	372.8	560	199	276.87	0 RUNNING	242	224
9/5/2018 16:04	135.04	4.1	55.4	373.2	560	198	276.64	0 RUNNING	242	224
9/5/2018 16:04	134.56	4.1	55.2	372.9	560	198	273.25	0 RUNNING	242	224
9/5/2018 16:04	135.18	4.1	55.2	373	560	198	274.21	0 RUNNING	242	224
9/5/2018 16:04	134.54	4.09	55.2	372.8	560	198	275.69	0 RUNNING	242	224
9/5/2018 16:04	134.43	4.09	55.1	372.8	560	198	274.43	0 RUNNING	242	224
9/5/2018 16:04	134.87	4.09	55.2	372.9	560	198	276.26	0 RUNNING	242	224
9/5/2018 16:04	133.67	4.09	55	372.7	560	197	272.24	0 RUNNING	242	224
9/5/2018 16:04	134.32	4.08	55	372.7	560	196	274.6	0 RUNNING	242	224
9/5/2018 16:04	134.73	4.09	55.1	372.9	560	194	274.82	0 RUNNING	242	224
9/5/2018 16:04	135.27	4.09	55.1	372.8	560	195	276.4	0 RUNNING	242	224
9/5/2018 16:04	134.72	4.09	55	372.7	560	192	275.61	0 RUNNING	242	224
9/5/2018 16:04	135.39	4.08	55.1	372.7	560	191	278.21	0 RUNNING	242	224
9/5/2018 16:04	135.8	4.09	54.3	372.2	560	191	275.06	0 RUNNING	242	224
9/5/2018 16:04	132.59	4.08	53.3	371.3	560	189	271.33	0 RUNNING	242	224
9/5/2018 16:04	134.84	4.08	54.9	372.5	560	188	279.12	0 RUNNING	242	224
9/5/2018 16:04	134.51	4.08	55	372.6	560	190	274.14	0 RUNNING	242	224
9/5/2018 16:04	133.52	4.08	55	372.6	560	190	273.02	0 RUNNING	242	224
9/5/2018 16:04	134.94	4.08	55.1	372.7	560	190	276.21	0 RUNNING	242	224
9/5/2018 16:04	133.98	4.09	55.1	372.7	560	189	276.5	0 RUNNING	242	224
9/5/2018 16:04	135.19	4.08	55	372.6	560	189	277.9	0 RUNNING	242	224
9/5/2018 16:04	135.52	4.09	55.1	372.7	560	188	276.31	0 RUNNING	242	224
9/5/2018 16:04	134.55	4.09	55.1	372.7	560	186	273.23	0 RUNNING	242	224
9/5/2018 16:04	134.8	4.09	55.1	372.8	560	187	277.42	0 RUNNING	242	224
9/5/2018 16:04	134.58	4.08	54.9	372.5	560	193	274.72	0 RUNNING	242	224
9/5/2018 16:04	134.53	4.09	55.1	372.7	560	203	275.93	0 RUNNING	242	224
9/5/2018 16:04	135.15	4.08	55	372.6	560	216	276.33	0 RUNNING	242	224
9/5/2018 16:04	135.17	4.09	55.1	372.7	560	227	275.21	0 RUNNING	242	224
9/5/2018 16:04	134.25	4.08	54.9	372.5	560	233	272.56	0 RUNNING	242	224
9/5/2018 16:04	134.86	4.08	55	372.5	560	234	275.2	0 RUNNING	242	224
9/5/2018 16:04	135.22	4.08	54.9	372.5	560	229	278.57	0 RUNNING	242	224
9/5/2018 16:04	134.49	4.07	54.9	372.4	560	223	273.71	0 RUNNING	242	224
9/5/2018 16:04	134.23	4.08	54.9	372.5	560	213	274.24	0 RUNNING	242	224
9/5/2018 16:04	135.27	4.08	54.9	372.6	560	204	276.4	0 RUNNING	242	224
9/5/2018 16:04	134.75	4.07	54.9	372.5	560	196	275.68	0 RUNNING	242	224
9/5/2018 16:04	134.51	4.08	55	372.6	560	189	274.94	0 RUNNING	242	224
9/5/2018 16:04	134.28	4.08	55	372.6	560	182	275.2	0 RUNNING	242	224
9/5/2018 16:04	134.41	4.07	54.8	372.4	560	175	273.66	0 RUNNING	242	224
9/5/2018 16:04	135.12	4.08	54.9	372.5	560	170	276.43	0 RUNNING	242	224
9/5/2018 16:04	135.14	4.09	55.2	372.8	560	165	275.88	0 RUNNING	242	224
9/5/2018 16:04	134.43	4.08	55	372.6	560	160	274.98	0 RUNNING	242	224
9/5/2018 16:04	134.63	4.08	55	372.5	560	155	274.79	0 RUNNING	242	224
9/5/2018 16:04	134.79	4.08	55	372.6	560	152	274.91	0 RUNNING	242	224
9/5/2018 16:04	134.97	4.08	55	372.5	560	146	277.41	0 RUNNING	242	224
9/5/2018 16:04	134.68	4.07	54.8	372.3	560	141	274.63	0 RUNNING	242	224
9/5/2018 16:04	134.4	4.08	55	372.5	560	137	274.77	0 RUNNING	242	224
9/5/2018 16:04	135.04	4.08	55	372.6	560	131	275.92	0 RUNNING	242	224
9/5/2018 16:04	134.91	4.07	54.9	372.4	560	127	274.72	0 RUNNING	242	224
9/5/2018 16:04	134.31	4.08	54.9	372.5	560	122	275.39	0 RUNNING	242	224
9/5/2018 16:04	134.71	4.08	55	372.6	560	118	274.14	0 RUNNING	242	224
9/5/2018 16:04	134.79	4.08	55	372.6	560	113	276.19	0 RUNNING	242	224
9/5/2018 16:04	134.98	4.08	55	372.6	560	108	275.11	0 RUNNING	242	224
9/5/2018 16:04	134.68	4.08	55	372.5	560	104	276.74	0 RUNNING	242	224
9/5/2018 16:04	135.09	4.08	55	372.5	560	99	275.28	0 RUNNING	242	224
9/5/2018 16:04	134.81	4.08	54.9	372.5	560	95	276.91	0 RUNNING	242	224
9/5/2018 16:04	134.57	4.06	54.7	372.2	560	90	274.22	0 RUNNING	242	224
9/5/2018 16:04	134.99	4.07	54.8	372.3	560	86	276.84	0 RUNNING	242	224
9/5/2018 16:04	133.99	4.07	54.8	372.3	560	82	274.22	0 RUNNING	242	224

9/5/2018 16:04	134.36	4.07	54.8	372.3	560	79	273.02	0 RUNNING	242	224
9/5/2018 16:05	134.36	4.07	54.8	372.3	560	75	276.33	0 RUNNING	242	224
9/5/2018 16:05	135.03	4.07	54.9	372.4	560	75	276.33	0 RUNNING	242	224
9/5/2018 16:05	134.17	4.07	54.8	372.2	560	69	274.55	0 RUNNING	242	224
9/5/2018 16:05	134.6	4.07	55	372.5	560	65	276.16	0 RUNNING	242	224
9/5/2018 16:05	135.52	4.07	54.9	372.5	560	59	276.29	0 RUNNING	242	224
9/5/2018 16:05	135.21	4.07	54.9	372.4	560	54	276.46	0 RUNNING	242	224
9/5/2018 16:05	133.79	4.07	54.7	372.3	560	50	273.2	0 RUNNING	242	224
9/5/2018 16:05	134.43	4.08	55	372.6	560	46	274.72	0 RUNNING	242	224
9/5/2018 16:05	134.61	4.08	55	372.6	560	42	275.98	0 RUNNING	242	224
9/5/2018 16:05	134.9	4.07	54.8	372.3	560	40	276.21	0 RUNNING	242	224
9/5/2018 16:05	134.72	4.08	55.1	372.7	560	37	275.8	0 RUNNING	242	224
9/5/2018 16:05	134.35	4.07	54.8	372.3	560	35	275.85	0 RUNNING	242	224
9/5/2018 16:05	135.06	4.07	54.8	372.3	560	31	274.21	0 RUNNING	242	224
9/5/2018 16:05	134.25	4.07	54.8	372.3	560	29	275.33	0 RUNNING	242	224
9/5/2018 16:05	95.65	3.54	0	-999	560	19	272.99	0 BUMPING	242	224
9/5/2018 16:05	101.19	0	0	-999	560	61	289.11	0 BUMPING	242	224
9/5/2018 16:05	101.26	0	0	-999	560	55	289.33	0 BUMPING	242	224
9/5/2018 16:05	106.29	4.07	42.7	363.7	560	32	291.21	0 RUNNING	242	224
9/5/2018 16:05	98.17	0	0	-999	560	82	280.47	0 BUMPING	242	224
9/5/2018 16:05	98.23	0	0	-999	560	49	280.66	0 BUMPING	242	224
9/5/2018 16:05	97.71	3.35	0	-999	560	17	279.17	0 BUMPING	242	224
9/5/2018 16:05	97.6	0	0	-999	560	50	278.28	0 BUMPING	242	224
9/5/2018 16:05	97.57	0	0	-999	560	47	278.77	0 BUMPING	242	224
9/5/2018 16:05	99.98	0	0	-999	560	106	285.65	0 BUMPING	242	224
9/5/2018 16:05	99.87	0	0	-999	560	46	285.35	0 BUMPING	242	224
9/5/2018 16:05	100.81	0	0	-999	560	143	288.03	0 BUMPING	242	224
9/5/2018 16:05	101.75	0	0	-999	560	46	290.74	0 BUMPING	242	224
9/5/2018 16:05	100.62	0.81	0	-999	560	131	287.66	0 BUMPING	242	224
9/5/2018 16:05	98.82	0	0	-999	560	45	282.35	0 BUMPING	242	224
9/5/2018 16:05	98.43	0	0	-999	560	127	281.24	0 BUMPING	242	224
9/5/2018 16:05	99.36	0	0	-999	560	39	283.89	0 BUMPING	242	224
9/5/2018 16:05	97.36	0	0	-999	560	149	278.19	0 BUMPING	242	224
9/5/2018 16:05	99.05	3.89	0	-999	560	19	283	0 BUMPING	242	224
9/5/2018 16:05	101.47	0	0	-999	560	49	289.91	0 BUMPING	242	224
9/5/2018 16:05	100.57	1.82	0	-999	560	101	287.62	0 BUMPING	242	224
9/5/2018 16:05	101.77	0	0	-999	560	31	290.77	0 BUMPING	242	224
9/5/2018 16:05	98.34	0	0	-999	560	64	280.98	0 BUMPING	242	224
9/5/2018 16:05	99.36	1.81	0	-999	560	98	284.61	0 BUMPING	242	224
9/5/2018 16:05	98.67	0	0	-999	560	29	281.92	0 BUMPING	242	224
9/5/2018 16:05	96.14	0	0	-999	560	53	274.68	0 BUMPING	242	224
9/5/2018 16:05	101.55	0	0	-999	560	131	290.15	0 BUMPING	242	224
9/5/2018 16:05	100.92	2.44	0	-999	560	14	288.34	0 BUMPING	242	224
9/5/2018 16:05	101.5	0	0	-999	560	29	290.02	0 BUMPING	242	224
9/5/2018 16:05	101.85	0	0	-999	560	88	291.01	0 BUMPING	242	224
9/5/2018 16:05	100.68	0.81	0	-999	560	125	287.36	0 BUMPING	242	224
9/5/2018 16:05	101.15	1.63	0	-999	560	13	289.01	0 BUMPING	242	224
9/5/2018 16:05	98.52	0	0	-999	560	25	281.26	0 BUMPING	242	224
9/5/2018 16:05	98.18	0	0	-999	560	62	280.52	0 BUMPING	242	224
9/5/2018 16:05	98.91	0	0	-999	560	127	282.61	0 BUMPING	242	224
9/5/2018 16:05	96.3	0	0	-999	560	91	275.16	0 BUMPING	242	224
9/5/2018 16:05	99.55	0	0	-999	560	12	283.75	0 BUMPING	242	224
9/5/2018 16:05	100.84	0	0	-999	560	23	288.12	0 BUMPING	242	224
9/5/2018 16:05	101.24	0	0	-999	560	46	289.26	0 BUMPING	242	224
9/5/2018 16:05	101.29	0	0	-999	560	138	289.06	0 BUMPING	242	224
9/5/2018 16:05	100.24	0	0	-999	560	122	286.42	0 BUMPING	242	224
9/5/2018 16:05	100.61	0	0	-999	560	44	287.47	0 BUMPING	242	224
9/5/2018 16:05	101.54	0	0	-999	560	14	290.12	0 BUMPING	242	224
9/5/2018 16:05	100.87	0	0	-999	560	29	288.2	0 BUMPING	242	224
9/5/2018 16:05	100.97	0	0	-999	560	75	288.49	0 BUMPING	242	224
9/5/2018 16:06	101.68	0	0	-999	560	127	290.53	0 BUMPING	242	224
9/5/2018 16:06	101.01	0	0	-999	560	90	288.96	0 BUMPING	242	224
9/5/2018 16:06	101.09	0	0	-999	560	8	288.84	0 BUMPING	242	224
9/5/2018 16:06	101.72	0	0	-999	560	17	290.63	0 BUMPING	242	224
9/5/2018 16:06	101.25	0	0	-999	560	41	289.42	0 BUMPING	242	224

9/5/2018 16:06	101.08	0	0	-999	560	133	288.75	0 BUMPING	242	224
9/5/2018 16:06	101.17	0	0	-999	560	117	289.06	0 BUMPING	242	224
9/5/2018 16:06	101.17	0	0	-999	560	41	289.08	0 BUMPING	242	224
9/5/2018 16:06	101.41	0	0	-999	560	10	290.03	0 BUMPING	242	224
9/5/2018 16:06	101.76	0	0	-999	560	23	290.2	0 BUMPING	242	224
9/5/2018 16:06	100.72	0	0	-999	560	72	287.77	0 BUMPING	242	224
9/5/2018 16:06	101.17	0	0	-999	560	122	289.71	0 BUMPING	242	224
9/5/2018 16:06	101.22	0	0	-999	560	82	289.2	0 BUMPING	242	224
9/5/2018 16:06	101.26	0	0	-999	560	5	289.31	0 BUMPING	242	224
9/5/2018 16:06	101.86	0	0	-999	560	13	291.01	0 BUMPING	242	224
9/5/2018 16:06	101.74	0	0	-999	560	37	290.7	0 BUMPING	242	224
9/5/2018 16:06	101.17	0	0	-999	560	131	289.06	0 BUMPING	242	224
9/5/2018 16:06	101.86	0	0	-999	560	112	291.04	0 BUMPING	242	224
9/5/2018 16:06	97.97	0	0	-999	560	39	290.58	0 BUMPING	242	224
9/5/2018 16:06	101.44	0	0	-999	560	6	289.26	0 BUMPING	242	224
9/5/2018 16:06	100.84	0	0	-999	560	19	288.12	0 BUMPING	242	224
9/5/2018 16:06	100.71	0	0	-999	560	64	287.76	0 BUMPING	242	224
9/5/2018 16:06	101.31	0	0	-999	560	118	289.47	0 BUMPING	242	224
9/5/2018 16:06	101.42	0	0	-999	560	81	289.78	0 BUMPING	242	224
9/5/2018 16:06	101.47	0	0	-999	560	4	289.93	0 BUMPING	242	224
9/5/2018 16:06	100.79	0	0	-999	560	10	287.4	0 BUMPING	242	224
9/5/2018 16:06	102.19	0	0	-999	560	35	291.98	0 BUMPING	242	224
9/5/2018 16:06	100.81	0	0	-999	560	131	288.03	0 BUMPING	242	224
9/5/2018 16:06	101.4	0	0	-999	560	110	289.35	0 BUMPING	242	224
9/5/2018 16:06	97.83	0	0	-999	560	23	279.53	0 BUMPING	242	224
9/5/2018 16:06	101.47	0	0	-999	560	5	289.91	0 BUMPING	242	224
9/5/2018 16:06	101.42	0	0	-999	560	16	289.3	0 BUMPING	242	224
9/5/2018 16:06	101.08	0	0	-999	560	71	288.82	0 BUMPING	242	224
9/5/2018 16:06	101.57	0	0	-999	560	116	290.2	0 BUMPING	242	224
9/5/2018 16:06	101.04	0	0	-999	560	81	288.7	0 BUMPING	242	224
9/5/2018 16:06	101.14	0	0	-999	560	3	289.31	0 BUMPING	242	224
9/5/2018 16:06	101.41	0	0	-999	560	9	289.76	0 BUMPING	242	224
9/5/2018 16:06	100.31	0	0	-999	560	32	286.61	0 BUMPING	242	224
9/5/2018 16:06	101.04	0	0	-999	560	126	288.65	0 BUMPING	242	224
9/5/2018 16:06	101.3	0	0	-999	560	106	289.43	0 BUMPING	242	224
9/5/2018 16:06	96.63	0	0	-999	560	21	276.1	0 BUMPING	242	224
9/5/2018 16:06	100.63	0	0	-999	560	4	288.12	0 BUMPING	242	224
9/5/2018 16:06	101.24	0	0	-999	560	17	289.26	0 BUMPING	242	224
9/5/2018 16:06	101.02	0	0	-999	560	69	288.63	0 BUMPING	242	224
9/5/2018 16:06	101.51	0	0	-999	560	114	290.05	0 BUMPING	242	224
9/5/2018 16:06	100.83	0	0	-999	560	80	288.01	0 BUMPING	242	224
9/5/2018 16:06	101.31	0	0	-999	560	2	289.47	0 BUMPING	242	224
9/5/2018 16:06	101.05	0	0	-999	560	7	288.72	0 BUMPING	242	224
9/5/2018 16:06	100.66	0	0	-999	560	30	287.62	0 BUMPING	242	224
9/5/2018 16:06	100.29	0	0	-999	560	123	287.07	0 BUMPING	242	224
9/5/2018 16:06	101.33	0	0	-999	560	104	289.54	0 BUMPING	242	224
9/5/2018 16:06	96.5	0	0	-999	560	21	275.71	0 BUMPING	242	224
9/5/2018 16:06	100.93	0	0	-999	560	3	289.02	0 BUMPING	242	224
9/5/2018 16:06	101.14	0	0	-999	560	15	288.97	0 BUMPING	242	224
9/5/2018 16:06	101.34	0	0	-999	560	66	289.55	0 BUMPING	242	224
9/5/2018 16:06	100.38	0	0	-999	560	112	286.58	0 BUMPING	242	224
9/5/2018 16:06	101.59	0	0	-999	560	71	290.27	0 BUMPING	242	224
9/5/2018 16:06	100.84	0	0	-999	560	2	288.13	0 BUMPING	242	224
9/5/2018 16:06	100.61	0	0	-999	560	6	287.47	0 BUMPING	242	224
9/5/2018 16:07	101.2	0	0	-999	560	29	289.14	0 BUMPING	242	224
9/5/2018 16:07	101.24	0	0	-999	560	119	289.26	0 BUMPING	242	224
9/5/2018 16:07	101.17	0	0	-999	560	104	289.08	0 BUMPING	242	224
9/5/2018 16:07	100.86	0	0	-999	560	20	277.61	0 BUMPING	242	224
9/5/2018 16:07	100.63	0	0	-999	560	3	287.52	0 BUMPING	242	224
9/5/2018 16:07	101.21	0	0	-999	560	13	289.18	0 BUMPING	242	224
9/5/2018 16:07	100.5	0	0	-999	560	62	287.09	0 BUMPING	242	224
9/5/2018 16:07	101.53	0	0	-999	560	107	290.08	0 BUMPING	242	224
9/5/2018 16:07	100.32	0	0	-999	560	71	286.65	0 BUMPING	242	224
9/5/2018 16:07	101.08	0	0	-999	560	2	288.82	0 BUMPING	242	224
9/5/2018 16:07	101.42	0	0	-999	560	5	290.05	0 BUMPING	242	224

9/5/2018 16:07	100.49	0	0	-999	560	29	287.12	0 BUMPING	242	224
9/5/2018 16:07	101.79	0	0	-999	560	117	290.84	0 BUMPING	242	224
9/5/2018 16:07	100.38	0	0	-999	560	103	286.9	0 BUMPING	242	224
9/5/2018 16:07	101.22	0	0	-999	560	1	289.21	0 BUMPING	242	224
9/5/2018 16:07	101.17	0	0	-999	560	2	289.06	0 BUMPING	242	224
9/5/2018 16:07	100.89	0	0	-999	560	12	288.39	0 BUMPING	242	224
9/5/2018 16:07	101.15	0	0	-999	560	70	289.01	0 BUMPING	242	224
9/5/2018 16:07	101.04	0	0	-999	560	108	288.68	0 BUMPING	242	224
9/5/2018 16:07	101.54	0	0	-999	560	71	290.14	0 BUMPING	242	224
9/5/2018 16:07	101.28	0	0	-999	560	1	289.73	0 BUMPING	242	224
9/5/2018 16:07	100.92	0	0	-999	560	5	288.34	0 BUMPING	242	224
9/5/2018 16:07	100.21	0	0	-999	560	27	286.34	0 BUMPING	242	224
9/5/2018 16:07	101.6	0	0	-999	560	116	291.37	0 BUMPING	242	224
9/5/2018 16:07	101.16	0	0	-999	560	97	289.04	0 BUMPING	242	224
9/5/2018 16:07	100.8	0	0	-999	560	1	288	0 BUMPING	242	224
9/5/2018 16:07	101.25	0	0	-999	560	2	289.3	0 BUMPING	242	224
9/5/2018 16:07	100.93	0	0	-999	560	11	288.61	0 BUMPING	242	224
9/5/2018 16:07	100.74	0	0	-999	560	69	287.84	0 BUMPING	242	224
9/5/2018 16:07	101.45	0	0	-999	560	106	289.86	0 BUMPING	242	224
9/5/2018 16:07	100.56	0	0	-999	560	63	287.33	0 BUMPING	242	224
9/5/2018 16:07	102.01	0	0	-999	560	2	291.45	0 BUMPING	242	224
9/5/2018 16:07	101.6	0	0	-999	560	5	290.29	0 BUMPING	242	224
9/5/2018 16:07	100.85	0	0	-999	560	25	287.98	0 BUMPING	242	224
9/5/2018 16:07	101.11	0	0	-999	560	112	288.89	0 BUMPING	242	224
9/5/2018 16:07	100.83	0	0	-999	560	97	288.1	0 BUMPING	242	224
9/5/2018 16:07	101.19	0	0	-999	560	1	288.82	0 BUMPING	242	224
9/5/2018 16:07	100.65	0	0	-999	560	2	288.34	0 BUMPING	242	224
9/5/2018 16:07	100.97	0	0	-999	560	11	288.49	0 BUMPING	242	224
9/5/2018 16:07	100.82	0	0	-999	560	69	288.07	0 BUMPING	242	224
9/5/2018 16:07	100.99	0	0	-999	560	103	288.61	0 BUMPING	242	224
9/5/2018 16:07	100.78	0	0	-999	560	69	287.96	0 BUMPING	242	224
9/5/2018 16:07	101.32	0	0	-999	560	1	289.49	0 BUMPING	242	224
9/5/2018 16:07	100.75	0	0	-999	560	4	288.22	0 BUMPING	242	224
9/5/2018 16:07	100.98	0	0	-999	560	29	288.53	0 BUMPING	242	224
9/5/2018 16:07	100.75	0	0	-999	560	111	287.86	0 BUMPING	242	224
9/5/2018 16:07	100.95	0	0	-999	560	93	288.44	0 BUMPING	242	224
9/5/2018 16:07	101.81	0	0	-999	560	1	290.89	0 BUMPING	242	224
9/5/2018 16:07	100.74	0	0	-999	560	2	287.84	0 BUMPING	242	224
9/5/2018 16:07	101.41	0	0	-999	560	11	289.76	0 BUMPING	242	224
9/5/2018 16:07	101.15	0	0	-999	560	67	287.98	0 BUMPING	242	224
9/5/2018 16:07	101.01	0	0	-999	560	101	288.6	0 BUMPING	242	224
9/5/2018 16:07	100.96	0	0	-999	560	69	288.48	0 BUMPING	242	224
9/5/2018 16:07	101.26	0	0	-999	560	1	288.85	0 BUMPING	242	224
9/5/2018 16:07	100.68	0	0	-999	560	6	287.67	0 BUMPING	242	224
9/5/2018 16:07	101.26	0	0	-999	560	28	289.33	0 BUMPING	242	224
9/5/2018 16:07	101.17	0	0	-999	560	110	289.06	0 BUMPING	242	224
9/5/2018 16:07	100.89	0	0	-999	560	92	287.88	0 BUMPING	242	224
9/5/2018 16:07	101.68	0	0	-999	560	1	290.51	0 BUMPING	242	224
9/5/2018 16:07	101.14	0	0	-999	560	2	288.99	0 BUMPING	242	224
9/5/2018 16:08	100.35	0	0	-999	560	11	286.97	0 BUMPING	242	224
9/5/2018 16:08	101.69	0	0	-999	560	78	290.55	0 BUMPING	242	224
9/5/2018 16:08	100.11	0	0	-999	560	103	286.05	0 BUMPING	242	224
9/5/2018 16:08	101.33	0	0	-999	560	69	288.9	0 BUMPING	242	224
9/5/2018 16:08	101.53	0	0	-999	560	1	290.1	0 BUMPING	242	224
9/5/2018 16:08	101.26	0	0	-999	560	5	289.33	0 BUMPING	242	224
9/5/2018 16:08	100.34	0	0	-999	560	28	286.7	0 BUMPING	242	224
9/5/2018 16:08	100.94	0	0	-999	560	107	288.41	0 BUMPING	242	224
9/5/2018 16:08	101.15	0	0	-999	560	87	289.01	0 BUMPING	242	224
9/5/2018 16:08	100.82	0	0	-999	560	1	288.07	0 BUMPING	242	224
9/5/2018 16:08	102.08	0	0	-999	560	2	291.51	0 BUMPING	242	224
9/5/2018 16:08	100.93	0	0	-999	560	13	288.39	0 BUMPING	242	224
9/5/2018 16:08	101.52	0	0	-999	560	65	289.93	0 BUMPING	242	224
9/5/2018 16:08	100.75	0	0	-999	560	106	287.88	0 BUMPING	242	224
9/5/2018 16:08	101.3	0	0	-999	560	59	289.43	0 BUMPING	242	224
9/5/2018 16:08	101.11	0	0	-999	560	1	288.9	0 BUMPING	242	224

9/5/2018 16:08	100.8	0	0	-999	560	5	288.01	0 BUMPING	242	224
9/5/2018 16:08	101.38	0	0	-999	560	27	288.77	0 BUMPING	242	224
9/5/2018 16:08	100.92	0	0	-999	560	105	288.34	0 BUMPING	242	224
9/5/2018 16:08	100.57	0	0	-999	560	88	287.35	0 BUMPING	242	224
9/5/2018 16:08	101.62	0	0	-999	560	1	289.76	0 BUMPING	242	224
9/5/2018 16:08	100.35	0	0	-999	560	2	286.71	0 BUMPING	242	224
9/5/2018 16:08	100.77	0	0	-999	560	13	287.91	0 BUMPING	242	224
9/5/2018 16:08	101.08	0	0	-999	560	76	288.54	0 BUMPING	242	224
9/5/2018 16:08	101.46	0	0	-999	560	106	289.9	0 BUMPING	242	224
9/5/2018 16:08	101.16	0	0	-999	560	59	289.02	0 BUMPING	242	224
9/5/2018 16:08	100.36	0	0	-999	560	1	286.77	0 BUMPING	242	224
9/5/2018 16:08	101.19	0	0	-999	560	5	289.85	0 BUMPING	242	224
9/5/2018 16:08	100.54	0	0	-999	560	32	287.26	0 BUMPING	242	224
9/5/2018 16:08	101.63	0	0	-999	560	105	290.39	0 BUMPING	242	224
9/5/2018 16:08	100.42	0	0	-999	560	86	288.17	0 BUMPING	242	224
9/5/2018 16:08	101.9	0	0	-999	560	1	291.16	0 BUMPING	242	224
9/5/2018 16:08	100.9	0	0	-999	560	2	288.31	0 BUMPING	242	224
9/5/2018 16:08	101.28	0	0	-999	560	12	289.38	0 BUMPING	242	224
9/5/2018 16:08	101.32	0	0	-999	560	77	289.4	0 BUMPING	242	224
9/5/2018 16:08	100.92	0	0	-999	560	105	288.34	0 BUMPING	242	224
9/5/2018 16:08	100.93	0	0	-999	560	58	288.39	0 BUMPING	242	224
9/5/2018 16:08	102.2	0	0	-999	560	1	291.71	0 BUMPING	242	224
9/5/2018 16:08	101.45	0	0	-999	560	6	289.86	0 BUMPING	242	224
9/5/2018 16:08	101.22	0	0	-999	560	31	289.2	0 BUMPING	242	224
9/5/2018 16:08	102.69	0	0	-999	560	105	292.89	0 BUMPING	242	224
9/5/2018 16:08	100.23	0	0	-999	560	87	286.37	0 BUMPING	242	224
9/5/2018 16:08	101.78	0	0	-999	560	1	290.82	0 BUMPING	242	224
9/5/2018 16:08	102.19	0	0	-999	560	2	291.97	0 BUMPING	242	224
9/5/2018 16:08	101.63	0	0	-999	560	12	290.39	0 BUMPING	242	224
9/5/2018 16:08	101.81	0	0	-999	560	89	290.91	0 BUMPING	242	224
9/5/2018 16:08	101.45	0	0	-999	560	101	289.86	0 BUMPING	242	224
9/5/2018 16:08	102	0	0	-999	560	59	291.23	0 BUMPING	242	224
9/5/2018 16:08	101.68	0	0	-999	560	2	290.53	0 BUMPING	242	224
9/5/2018 16:08	101.83	0	0	-999	560	6	290.94	0 BUMPING	242	224
9/5/2018 16:08	101.09	0	0	-999	560	31	288.77	0 BUMPING	242	224
9/5/2018 16:08	101.57	0	0	-999	560	103	290.22	0 BUMPING	242	224
9/5/2018 16:08	102.07	0	0	-999	560	86	291.64	0 BUMPING	242	224
9/5/2018 16:08	101.75	0	0	-999	560	1	290.72	0 BUMPING	242	224
9/5/2018 16:08	101.48	0	0	-999	560	2	290.12	0 BUMPING	242	224
9/5/2018 16:08	101.96	0	0	-999	560	14	291.32	0 BUMPING	242	224
9/5/2018 16:08	102.08	0	0	-999	560	91	291.68	0 BUMPING	242	224
9/5/2018 16:08	101.63	0	0	-999	560	103	290.14	0 BUMPING	242	224
9/5/2018 16:08	101.16	0	0	-999	560	48	289.02	0 BUMPING	242	224
9/5/2018 16:09	101.81	0	0	-999	560	1	290.89	0 BUMPING	242	224
9/5/2018 16:09	101.82	0	0	-999	560	5	290.92	0 BUMPING	242	224
9/5/2018 16:09	101.56	0	0	-999	560	31	289.71	0 BUMPING	242	224
9/5/2018 16:09	101.45	0	0	-999	560	103	289.86	0 BUMPING	242	224
9/5/2018 16:09	101.18	0	0	-999	560	83	289.09	0 BUMPING	242	224
9/5/2018 16:09	101.83	0	0	-999	560	1	291.2	0 BUMPING	242	224
9/5/2018 16:09	101.48	0	0	-999	560	2	289.95	0 BUMPING	242	224
9/5/2018 16:09	101.82	0	0	-999	560	14	290.92	0 BUMPING	242	224
9/5/2018 16:09	102.51	0	0	-999	560	88	292.21	0 BUMPING	242	224
9/5/2018 16:09	102.28	0	0	-999	560	102	292.22	0 BUMPING	242	224
9/5/2018 16:09	101.63	0	0	-999	560	48	290.39	0 BUMPING	242	224
9/5/2018 16:09	101.97	0	0	-999	560	1	291.35	0 BUMPING	242	224
9/5/2018 16:09	101.68	0	0	-999	560	6	290.82	0 BUMPING	242	224
9/5/2018 16:09	101.72	0	0	-999	560	37	290.65	0 BUMPING	242	224
9/5/2018 16:09	101.73	0	0	-999	560	103	290.67	0 BUMPING	242	224
9/5/2018 16:09	101.71	0	0	-999	560	80	290.62	0 BUMPING	242	224
9/5/2018 16:09	101.84	0	0	-999	560	1	290.97	0 BUMPING	242	224
9/5/2018 16:09	101.56	0	0	-999	560	2	290.19	0 BUMPING	242	224
9/5/2018 16:09	101.9	0	0	-999	560	14	290.48	0 BUMPING	242	224
9/5/2018 16:09	101.07	0	0	-999	560	110	288.78	0 BUMPING	242	224
9/5/2018 16:09	101.11	0	0	-999	560	99	288.9	0 BUMPING	242	224
9/5/2018 16:09	103.13	0	0	-999	560	48	294.65	0 BUMPING	242	224

9/5/2018 16:09	102.08	0	0	-999	560	1	291.66	0 BUMPING	242	224
9/5/2018 16:09	101.6	0	0	-999	560	6	290.31	0 BUMPING	242	224
9/5/2018 16:09	102.38	0	0	-999	560	37	292.51	0 BUMPING	242	224
9/5/2018 16:09	101.71	0	0	-999	560	101	290.6	0 BUMPING	242	224
9/5/2018 16:09	101.27	0	0	-999	560	80	289.35	0 BUMPING	242	224
9/5/2018 16:09	102.07	0	0	-999	560	1	291.62	0 BUMPING	242	224
9/5/2018 16:09	102.37	0	0	-999	560	3	293.63	0 BUMPING	242	224
9/5/2018 16:09	101.89	0	0	-999	560	14	290.34	0 BUMPING	242	224
9/5/2018 16:09	101.84	0	0	-999	560	108	290.99	0 BUMPING	242	224
9/5/2018 16:09	102.17	0	0	-999	560	99	291.93	0 BUMPING	242	224
9/5/2018 16:09	100.96	0	0	-999	560	47	290.36	0 BUMPING	242	224
9/5/2018 16:09	101.6	0	0	-999	560	1	290.29	0 BUMPING	242	224
9/5/2018 16:09	101.32	0	0	-999	560	7	289.5	0 BUMPING	242	224
9/5/2018 16:09	101.83	0	0	-999	560	35	290.7	0 BUMPING	242	224
9/5/2018 16:09	102.02	0	0	-999	560	99	291.51	0 BUMPING	242	224
9/5/2018 16:09	101.8	0	0	-999	560	79	290.87	0 BUMPING	242	224
9/5/2018 16:09	101.8	0	0	-999	560	1	290.51	0 BUMPING	242	224
9/5/2018 16:09	101.47	0	0	-999	560	2	290.26	0 BUMPING	242	224
9/5/2018 16:09	101.44	0	0	-999	560	16	289.85	0 BUMPING	242	224
9/5/2018 16:09	101.78	0	0	-999	560	108	290.8	0 BUMPING	242	224
9/5/2018 16:09	101.88	0	0	-999	560	96	291.09	0 BUMPING	242	224
9/5/2018 16:09	101.35	0	0	-999	560	35	289.59	0 BUMPING	242	224
9/5/2018 16:09	101.29	0	0	-999	560	2	289.42	0 BUMPING	242	224
9/5/2018 16:09	102.14	0	0	-999	560	6	290.92	0 BUMPING	242	224
9/5/2018 16:09	101.78	0	0	-999	560	43	290.8	0 BUMPING	242	224
9/5/2018 16:09	101.59	0	0	-999	560	100	290.27	0 BUMPING	242	224
9/5/2018 16:09	102.68	0	0	-999	560	80	293.37	0 BUMPING	242	224
9/5/2018 16:09	101.88	0	0	-999	560	1	291.09	0 BUMPING	242	224
9/5/2018 16:09	101.51	0	0	-999	560	3	290.03	0 BUMPING	242	224
9/5/2018 16:09	101.53	0	0	-999	560	16	290.08	0 BUMPING	242	224
9/5/2018 16:09	102.05	0	0	-999	560	105	291.4	0 BUMPING	242	224
9/5/2018 16:09	101.25	0	0	-999	560	95	289.3	0 BUMPING	242	224
9/5/2018 16:09	101.07	0	0	-999	560	35	288.78	0 BUMPING	242	224
9/5/2018 16:09	102.07	0	0	-999	560	1	291.52	0 BUMPING	242	224
9/5/2018 16:09	101.94	0	0	-999	560	8	291.27	0 BUMPING	242	224
9/5/2018 16:09	101.63	0	0	-999	560	36	290.22	0 BUMPING	242	224
9/5/2018 16:09	102.02	0	0	-999	560	100	291.51	0 BUMPING	242	224
9/5/2018 16:10	102.36	0	0	-999	560	80	292.99	0 BUMPING	242	224
9/5/2018 16:10	102.27	0	0	-999	560	1	292.21	0 BUMPING	242	224
9/5/2018 16:10	101.05	0	0	-999	560	3	288.72	0 BUMPING	242	224
9/5/2018 16:10	102.59	0	0	-999	560	15	293.97	0 BUMPING	242	224
9/5/2018 16:10	101.45	0	0	-999	560	105	289.86	0 BUMPING	242	224
9/5/2018 16:10	102.38	0	0	-999	560	94	292.53	0 BUMPING	242	224
9/5/2018 16:10	96.66	0	0	-999	560	32	288.54	0 BUMPING	242	224
9/5/2018 16:10	102.11	0	0	-999	560	1	291.88	0 BUMPING	242	224
9/5/2018 16:10	101.92	0	0	-999	560	8	291.2	0 BUMPING	242	224
9/5/2018 16:10	101.85	0	0	-999	560	42	291.01	0 BUMPING	242	224
9/5/2018 16:10	102.34	0	0	-999	560	98	293.34	0 BUMPING	242	224
9/5/2018 16:10	102.16	0	0	-999	560	82	291.9	0 BUMPING	242	224
9/5/2018 16:10	101.96	0	0	-999	560	1	291.33	0 BUMPING	242	224
9/5/2018 16:10	101.7	0	0	-999	560	3	289.97	0 BUMPING	242	224
9/5/2018 16:10	101.68	0	0	-999	560	18	290.53	0 BUMPING	242	224
9/5/2018 16:10	101.99	0	0	-999	560	104	291.4	0 BUMPING	242	224
9/5/2018 16:10	102.02	0	0	-999	560	92	291.56	0 BUMPING	242	224
9/5/2018 16:10	97.65	0	0	-999	560	16	279	0 BUMPING	242	224
9/5/2018 16:10	102.89	0	0	-999	560	2	293.99	0 BUMPING	242	224
9/5/2018 16:10	102.79	0	0	-999	560	8	293.7	0 BUMPING	242	224
9/5/2018 16:10	101.24	0	0	-999	560	49	289.28	0 BUMPING	242	224
9/5/2018 16:10	102.31	0	0	-999	560	98	292.33	0 BUMPING	242	224
9/5/2018 16:10	101.82	0	0	-999	560	79	290.92	0 BUMPING	242	224
9/5/2018 16:10	101.8	0	0	-999	560	1	290.85	0 BUMPING	242	224
9/5/2018 16:10	102.01	0	0	-999	560	3	291.97	0 BUMPING	242	224
9/5/2018 16:10	102.49	0	0	-999	560	18	292.84	0 BUMPING	242	224
9/5/2018 16:10	102.11	0	0	-999	560	104	291.76	0 BUMPING	242	224
9/5/2018 16:10	102.21	0	0	-999	560	92	291.81	0 BUMPING	242	224

9/5/2018 16:10	96.26	0	0	-999	560	17	275.04	0 BUMPING	242	224
9/5/2018 16:10	102.44	0	0	-999	560	1	292.69	0 BUMPING	242	224
9/5/2018 16:10	102.31	0	0	-999	560	8	291.59	0 BUMPING	242	224
9/5/2018 16:10	102.38	0	0	-999	560	49	292.51	0 BUMPING	242	224
9/5/2018 16:10	101.8	0	0	-999	560	96	290.85	0 BUMPING	242	224
9/5/2018 16:10	101.96	0	0	-999	560	79	291.61	0 BUMPING	242	224
9/5/2018 16:10	102.72	0	0	-999	560	1	293.49	0 BUMPING	242	224
9/5/2018 16:10	102.29	0	0	-999	560	4	292.28	0 BUMPING	242	224
9/5/2018 16:10	101.26	0	0	-999	560	18	289.31	0 BUMPING	242	224
9/5/2018 16:10	102.32	0	0	-999	560	103	292.72	0 BUMPING	242	224
9/5/2018 16:10	102.35	0	0	-999	560	88	292.45	0 BUMPING	242	224
9/5/2018 16:10	98.54	0	0	-999	560	17	281.56	0 BUMPING	242	224
9/5/2018 16:10	102.84	0	0	-999	560	2	293.3	0 BUMPING	242	224
9/5/2018 16:10	101.2	0	0	-999	560	9	289.14	0 BUMPING	242	224
9/5/2018 16:10	102.5	0	0	-999	560	49	292.87	0 BUMPING	242	224
9/5/2018 16:10	101.53	0	0	-999	560	105	290.65	0 BUMPING	242	224
9/5/2018 16:10	102.77	0	0	-999	560	79	293.32	0 BUMPING	242	224
9/5/2018 16:10	102.06	0	0	-999	560	2	291.61	0 BUMPING	242	224
9/5/2018 16:10	101.82	0	0	-999	560	4	290.92	0 BUMPING	242	224
9/5/2018 16:10	102.4	0	0	-999	560	21	292.58	0 BUMPING	242	224
9/5/2018 16:10	101.8	0	0	-999	560	102	290.87	0 BUMPING	242	224
9/5/2018 16:10	102.58	0	0	-999	560	88	293.1	0 BUMPING	242	224
9/5/2018 16:10	97.35	0	0	-999	560	17	278.14	0 BUMPING	242	224
9/5/2018 16:10	102.03	0	0	-999	560	2	291.15	0 BUMPING	242	224
9/5/2018 16:10	102.14	0	0	-999	560	8	291.85	0 BUMPING	242	224
9/5/2018 16:10	102.14	0	0	-999	560	49	291.83	0 BUMPING	242	224
9/5/2018 16:10	102.22	0	0	-999	560	102	292.07	0 BUMPING	242	224
9/5/2018 16:10	102.08	0	0	-999	560	78	291.18	0 BUMPING	242	224
9/5/2018 16:10	102.07	0	0	-999	560	2	291.64	0 BUMPING	242	224
9/5/2018 16:10	101.77	0	0	-999	560	4	290.77	0 BUMPING	242	224
9/5/2018 16:10	102.68	0	0	-999	560	20	293.37	0 BUMPING	242	224
9/5/2018 16:11	102.14	0	0	-999	560	100	291.85	0 BUMPING	242	224
9/5/2018 16:11	102.08	0	0	-999	560	87	292.79	0 BUMPING	242	224
9/5/2018 16:11	102.32	0	0	-999	560	1	292.36	0 BUMPING	242	224
9/5/2018 16:11	101.85	0	0	-999	560	2	291.01	0 BUMPING	242	224
9/5/2018 16:11	102.29	0	0	-999	560	9	292.28	0 BUMPING	242	224
9/5/2018 16:11	101.87	0	0	-999	560	48	291.92	0 BUMPING	242	224
9/5/2018 16:11	101.78	0	0	-999	560	99	290.8	0 BUMPING	242	224
9/5/2018 16:11	102.11	0	0	-999	560	72	291.76	0 BUMPING	242	224
9/5/2018 16:11	102.84	0	0	-999	560	2	293.83	0 BUMPING	242	224
9/5/2018 16:11	101.44	0	0	-999	560	4	289.85	0 BUMPING	242	224
9/5/2018 16:11	102.1	0	0	-999	560	20	291.73	0 BUMPING	242	224
9/5/2018 16:11	101.81	0	0	-999	560	98	291.16	0 BUMPING	242	224
9/5/2018 16:11	101.91	0	0	-999	560	85	291.18	0 BUMPING	242	224
9/5/2018 16:11	102.59	0	0	-999	560	1	293.13	0 BUMPING	242	224
9/5/2018 16:11	102.14	0	0	-999	560	2	291.85	0 BUMPING	242	224
9/5/2018 16:11	101.64	0	0	-999	560	9	289.98	0 BUMPING	242	224
9/5/2018 16:11	101.66	0	0	-999	560	48	291.47	0 BUMPING	242	224
9/5/2018 16:11	102.17	0	0	-999	560	100	291.92	0 BUMPING	242	224
9/5/2018 16:11	102.51	0	0	-999	560	73	292.91	0 BUMPING	242	224
9/5/2018 16:11	102.12	0	0	-999	560	1	291.33	0 BUMPING	242	224
9/5/2018 16:11	102.92	0	0	-999	560	4	294.05	0 BUMPING	242	224
9/5/2018 16:11	102.47	0	0	-999	560	20	292.86	0 BUMPING	242	224
9/5/2018 16:11	102.05	0	0	-999	560	98	291.57	0 BUMPING	242	224
9/5/2018 16:11	101.98	0	0	-999	560	85	291.39	0 BUMPING	242	224
9/5/2018 16:11	101.83	0	0	-999	560	1	290.96	0 BUMPING	242	224
9/5/2018 16:11	102.14	0	0	-999	560	2	291.37	0 BUMPING	242	224
9/5/2018 16:11	102.02	0	0	-999	560	10	291.49	0 BUMPING	242	224
9/5/2018 16:11	102.25	0	0	-999	560	56	292.14	0 BUMPING	242	224
9/5/2018 16:11	101.66	0	0	-999	560	100	289.98	0 BUMPING	242	224
9/5/2018 16:11	102.35	0	0	-999	560	65	292.43	0 BUMPING	242	224
9/5/2018 16:11	102.45	0	0	-999	560	1	292.74	0 BUMPING	242	224
9/5/2018 16:11	102.36	0	0	-999	560	4	291.98	0 BUMPING	242	224
9/5/2018 16:11	101.49	0	0	-999	560	20	290.1	0 BUMPING	242	224
9/5/2018 16:11	102.56	0	0	-999	560	98	293.03	0 BUMPING	242	224

9/5/2018 16:11	101.92	0	0	-999	560	85	291.2	0 BUMPING	242	224
9/5/2018 16:11	101.42	0	0	-999	560	2	289.78	0 BUMPING	242	224
9/5/2018 16:11	102.6	0	0	-999	560	2	294.31	0 BUMPING	242	224
9/5/2018 16:11	102.49	0	0	-999	560	10	292.84	0 BUMPING	242	224
9/5/2018 16:11	101.3	0	0	-999	560	57	290.2	0 BUMPING	242	224
9/5/2018 16:11	102.32	0	0	-999	560	100	291.61	0 BUMPING	242	224
9/5/2018 16:11	102.35	0	0	-999	560	64	292.45	0 BUMPING	242	224
9/5/2018 16:11	101.52	0	0	-999	560	2	290.07	0 BUMPING	242	224
9/5/2018 16:11	102.29	0	0	-999	560	4	292.57	0 BUMPING	242	224
9/5/2018 16:11	101.75	0	0	-999	560	24	290.72	0 BUMPING	242	224
9/5/2018 16:11	102.45	0	0	-999	560	96	292.72	0 BUMPING	242	224
9/5/2018 16:11	101.98	0	0	-999	560	84	291.39	0 BUMPING	242	224
9/5/2018 16:11	102.19	0	0	-999	560	1	291.97	0 BUMPING	242	224
9/5/2018 16:11	102.59	0	0	-999	560	2	293.13	0 BUMPING	242	224
9/5/2018 16:11	101.9	0	0	-999	560	10	290.87	0 BUMPING	242	224
9/5/2018 16:11	102.22	0	0	-999	560	66	292.07	0 BUMPING	242	224
9/5/2018 16:11	102.16	0	0	-999	560	97	291.88	0 BUMPING	242	224
9/5/2018 16:11	102.02	0	0	-999	560	64	291.49	0 BUMPING	242	224
9/5/2018 16:11	102.56	0	0	-999	560	1	293.05	0 BUMPING	242	224
9/5/2018 16:11	101.91	0	0	-999	560	5	291.18	0 BUMPING	242	224
9/5/2018 16:11	102.01	0	0	-999	560	24	291.45	0 BUMPING	242	224
9/5/2018 16:11	101.62	0	0	-999	560	97	290.24	0 BUMPING	242	224
9/5/2018 16:11	102.16	0	0	-999	560	83	291.9	0 BUMPING	242	224
9/5/2018 16:11	102.54	0	0	-999	560	1	292.99	0 BUMPING	242	224
9/5/2018 16:11	102.49	0	0	-999	560	2	292.81	0 BUMPING	242	224
9/5/2018 16:12	101.77	0	0	-999	560	12	290.77	0 BUMPING	242	224
9/5/2018 16:12	102.26	0	0	-999	560	66	292.17	0 BUMPING	242	224
9/5/2018 16:12	101.34	0	0	-999	560	96	289.55	0 BUMPING	242	224
9/5/2018 16:12	102.65	0	0	-999	560	63	293.58	0 BUMPING	242	224
9/5/2018 16:12	102.76	0	0	-999	560	1	293.61	0 BUMPING	242	224
9/5/2018 16:12	101.56	0	0	-999	560	5	290.17	0 BUMPING	242	224
9/5/2018 16:12	102.28	0	0	-999	560	24	291.54	0 BUMPING	242	224
9/5/2018 16:12	101.84	0	0	-999	560	96	290.97	0 BUMPING	242	224
9/5/2018 16:12	101.45	0	0	-999	560	82	289.86	0 BUMPING	242	224
9/5/2018 16:12	102.12	0	0	-999	560	1	291.78	0 BUMPING	242	224
9/5/2018 16:12	102.63	0	0	-999	560	2	293.42	0 BUMPING	242	224
9/5/2018 16:12	101.39	0	0	-999	560	12	289.71	0 BUMPING	242	224
9/5/2018 16:12	102.22	0	0	-999	560	66	292.07	0 BUMPING	242	224
9/5/2018 16:12	102.38	0	0	-999	560	96	292.53	0 BUMPING	242	224
9/5/2018 16:12	102.51	0	0	-999	560	63	292.72	0 BUMPING	242	224
9/5/2018 16:12	102.57	0	0	-999	560	1	293.06	0 BUMPING	242	224
9/5/2018 16:12	101.72	0	0	-999	560	5	291.04	0 BUMPING	242	224
9/5/2018 16:12	102.13	0	0	-999	560	28	291.81	0 BUMPING	242	224
9/5/2018 16:12	101.69	0	0	-999	560	96	290.55	0 BUMPING	242	224
9/5/2018 16:12	102.22	0	0	-999	560	83	292.05	0 BUMPING	242	224
9/5/2018 16:12	101.65	0	0	-999	560	1	291.54	0 BUMPING	242	224
9/5/2018 16:12	102.38	0	0	-999	560	2	292.51	0 BUMPING	242	224
9/5/2018 16:12	101.79	0	0	-999	560	11	290.84	0 BUMPING	242	224
9/5/2018 16:12	102.51	0	0	-999	560	66	291.95	0 BUMPING	242	224
9/5/2018 16:12	102.39	0	0	-999	560	93	292.57	0 BUMPING	242	224
9/5/2018 16:12	101.78	0	0	-999	560	55	290.8	0 BUMPING	242	224
9/5/2018 16:12	101.6	0	0	-999	560	1	290.24	0 BUMPING	242	224
9/5/2018 16:12	102.69	0	0	-999	560	5	293.4	0 BUMPING	242	224
9/5/2018 16:12	101.7	0	0	-999	560	28	290.58	0 BUMPING	242	224
9/5/2018 16:12	101.57	0	0	-999	560	96	290.2	0 BUMPING	242	224
9/5/2018 16:12	102.25	0	0	-999	560	81	292.14	0 BUMPING	242	224
9/5/2018 16:12	101.78	0	0	-999	560	2	290.8	0 BUMPING	242	224
9/5/2018 16:12	102.13	0	0	-999	560	2	291.81	0 BUMPING	242	224
9/5/2018 16:12	102.11	0	0	-999	560	12	291.28	0 BUMPING	242	224
9/5/2018 16:12	101.93	0	0	-999	560	81	291.25	0 BUMPING	242	224
9/5/2018 16:12	102.33	0	0	-999	560	94	292.38	0 BUMPING	242	224
9/5/2018 16:12	102.54	0	0	-999	560	53	294.14	0 BUMPING	242	224
9/5/2018 16:12	101.5	0	0	-999	560	1	290	0 BUMPING	242	224
9/5/2018 16:12	101.57	0	0	-999	560	6	290.2	0 BUMPING	242	224
9/5/2018 16:12	102.25	0	0	-999	560	28	291.47	0 BUMPING	242	224

9/5/2018 16:12	101.7	0	0	-999	560	96	290.41	0 BUMPING	242	224
9/5/2018 16:12	102.26	0	0	-999	560	87	292.17	0 BUMPING	242	224
9/5/2018 16:12	102.18	0	0	-999	560	1	291.95	0 BUMPING	242	224
9/5/2018 16:12	101.96	0	0	-999	560	2	291.73	0 BUMPING	242	224
9/5/2018 16:12	101.96	0	0	-999	560	12	291.33	0 BUMPING	242	224
9/5/2018 16:12	101.54	0	0	-999	560	80	290.12	0 BUMPING	242	224
9/5/2018 16:12	102.46	0	0	-999	560	92	292.75	0 BUMPING	242	224
9/5/2018 16:12	101.98	0	0	-999	560	52	291.2	0 BUMPING	242	224
9/5/2018 16:12	101.99	0	0	-999	560	1	291.23	0 BUMPING	242	224
9/5/2018 16:12	102.19	0	0	-999	560	6	291.98	0 BUMPING	242	224
9/5/2018 16:12	102.11	0	0	-999	560	28	290.91	0 BUMPING	242	224
9/5/2018 16:12	102.13	0	0	-999	560	95	291.8	0 BUMPING	242	224
9/5/2018 16:12	100.72	0	0	-999	560	84	287.77	0 BUMPING	242	224
9/5/2018 16:12	102.6	0	0	-999	560	1	292.87	0 BUMPING	242	224
9/5/2018 16:12	102.08	0	0	-999	560	3	291.66	0 BUMPING	242	224
9/5/2018 16:12	101.81	0	0	-999	560	13	290.89	0 BUMPING	242	224
9/5/2018 16:12	102.19	0	0	-999	560	81	291.98	0 BUMPING	242	224
9/5/2018 16:12	101.68	0	0	-999	560	90	290.51	0 BUMPING	242	224
9/5/2018 16:12	102.38	0	0	-999	560	43	292.53	0 BUMPING	242	224
9/5/2018 16:13	102.7	0	0	-999	560	1	293.44	0 BUMPING	242	224
9/5/2018 16:13	101.86	0	0	-999	560	6	290.92	0 BUMPING	242	224
9/5/2018 16:13	101.23	0	0	-999	560	32	289.25	0 BUMPING	242	224
9/5/2018 16:13	102.52	0	0	-999	560	103	292.93	0 BUMPING	242	224
9/5/2018 16:13	101.8	0	0	-999	560	84	291.51	0 BUMPING	242	224
9/5/2018 16:13	102.54	0	0	-999	560	1	293.64	0 BUMPING	242	224
9/5/2018 16:13	102.41	0	0	-999	560	3	292.62	0 BUMPING	242	224
9/5/2018 16:13	101.98	0	0	-999	560	13	290.94	0 BUMPING	242	224
9/5/2018 16:13	102.49	0	0	-999	560	81	291.9	0 BUMPING	242	224
9/5/2018 16:13	101.94	0	0	-999	560	91	291.27	0 BUMPING	242	224
9/5/2018 16:13	101.98	0	0	-999	560	43	291.39	0 BUMPING	242	224
9/5/2018 16:13	101.71	0	0	-999	560	1	290.97	0 BUMPING	242	224
9/5/2018 16:13	102.57	0	0	-999	560	7	293.08	0 BUMPING	242	224
9/5/2018 16:13	102.1	0	0	-999	560	33	291.71	0 BUMPING	242	224
9/5/2018 16:13	102.36	0	0	-999	560	100	292.43	0 BUMPING	242	224
9/5/2018 16:13	101.54	0	0	-999	560	84	290.5	0 BUMPING	242	224
9/5/2018 16:13	101.96	0	0	-999	560	1	291.33	0 BUMPING	242	224
9/5/2018 16:13	102.3	0	0	-999	560	3	292.29	0 BUMPING	242	224
9/5/2018 16:13	100.74	0	0	-999	560	15	287.84	0 BUMPING	242	224
9/5/2018 16:13	101.98	0	0	-999	560	99	291.37	0 BUMPING	242	224
9/5/2018 16:13	101.26	0	0	-999	560	88	289.33	0 BUMPING	242	224
9/5/2018 16:13	102.03	0	0	-999	560	44	291.52	0 BUMPING	242	224
9/5/2018 16:13	102.47	0	0	-999	560	1	292.77	0 BUMPING	242	224
9/5/2018 16:13	102.11	0	0	-999	560	7	291.74	0 BUMPING	242	224
9/5/2018 16:13	102.6	0	0	-999	560	33	293.16	0 BUMPING	242	224
9/5/2018 16:13	101.2	0	0	-999	560	101	289.16	0 BUMPING	242	224
9/5/2018 16:13	100.7	0	0	-999	560	78	287.72	0 BUMPING	242	224
9/5/2018 16:13	100.86	0	0	-999	560	2	288.19	0 BUMPING	242	224
9/5/2018 16:13	101.98	0	0	-999	560	3	291.37	0 BUMPING	242	224
9/5/2018 16:13	101.26	0	0	-999	560	15	289.31	0 BUMPING	242	224
9/5/2018 16:13	101.63	0	0	-999	560	96	290.39	0 BUMPING	242	224
9/5/2018 16:13	101.93	0	0	-999	560	87	290.32	0 BUMPING	242	224
9/5/2018 16:13	101.72	0	0	-999	560	33	290.65	0 BUMPING	242	224
9/5/2018 16:13	101.71	0	0	-999	560	1	290.6	0 BUMPING	242	224
9/5/2018 16:13	102.72	0	0	-999	560	1	293.49	0 BUMPING	242	224
9/5/2018 16:13	101.73	0	0	-999	560	1	290.67	0 BUMPING	242	224
9/5/2018 16:13	101.91	0	0	-999	560	1	291.18	0 BUMPING	242	224
9/5/2018 16:13	101.72	0	0	-999	560	1	290.65	0 BUMPING	0	0
9/5/2018 16:13	101.72	0	0	-999	560	1	290.65	0 BUMPING	0	0
9/5/2018 16:13	101.72	0	0	-999	560	1	290.65	0 BUMPING	0	0
9/5/2018 16:13	101.72	0	0	-999	560	1	290.65	0 BUMPING	0	0
9/5/2018 16:13	0	0	0	0	0	0	0	0 None	0	0
9/5/2018 16:13	0	0	0	0	0	0	0	0 None	0	0
9/5/2018 16:13	0	0	0	0	0	0	0	0 None	0	0
9/5/2018 16:13	0	0	0	0	0	0	0	0 None	0	0

9/5/2018 16:13

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4.24

375.98

IRS CCA 201748008; 2017 IRS CCA LEXIS 46

US Internal Revenue Service

November 17, 2017

Reporter

2017 IRS CCA LEXIS 46 *; IRS CCA 201748008

Chief Counsel Advice Memoranda 201748008

Subject Matter

Section 162 (f) and Disgorgement for Violating a Federal Securities Law

[*1]

Reference: Release Date: 12/1/2017

UI List: 162.21-01

CC:ITA:B02 POSTN-134300-17

Core Terms

fine, disgorgement, advice, federal securities, compensatory

Text

to: Vincent J. Guiliano
Banking Industry Counsel
Large Business & International CC:LB&I:3

from: Robert Basso
Senior Counsel, Branch 2
Office of Associate Chief Counsel
(Income Tax and Accounting) CC:ITA:2

This Chief Counsel Advice responds to your request for assistance. This advice may not be used or cited as precedent.

Previously, and prior to the opinion in [Kokesh v. SEC, 137 S. Ct. 1635, 198 L. Ed. 2d 86 \(2017\)](#), this office provided written advice on the above-referenced subject. (See [CCA 201619008](#).) Recently, we provided oral advice addressing the effect of the holding in [Kokesh](#), and, as you requested, we are providing a written analysis in this Chief Counsel Advice.

ISSUE

Whether *section 162 (f) of the Internal Revenue Code* prohibits a deduction under *section 162 (a)* for an amount paid as disgorgement for violating a federal securities law.

CONCLUSION

Section 162 (f) prohibits a deduction under *section 162 (a)* for an amount paid as disgorgement for violating a federal securities law.

LAW AND ANALYSIS

Section 162 (f) of the Code provides that no deduction shall be allowed under *section 162 (a)* [*2] for any fine or similar penalty paid to a government for the violation of any law. [Section 1.162-21 \(b\) \(1\) of the Income Tax Regulations](#) provides that a fine or similar penalty includes ¹ an amount (i) paid pursuant to conviction or a plea of guilty or nolo contendere for a crime (felony or misdemeanor) in a criminal proceeding; (ii) paid as a civil penalty imposed by federal, state, or local law; (iii) paid in settlement of the taxpayer's actual or potential liability for a fine or penalty (civil or criminal); or (iv) forfeited as collateral posted in connection with a proceeding that could result in imposition of such a fine or penalty. [Section 1.162-21 \(b\) \(2\)](#) provides, in part, that compensatory damages (including damages under [section 4A of the Clayton Act \(15 U.S.C. § 15a\)](#), as amended) paid to a government do not constitute a fine or penalty.

The characterization of a payment for purposes of *section 162 (f)* depends on the origin of the liability giving rise to it, not the ultimate use of the funds. [Bailey v. Commissioner, 756 F.2d 44, 47 \(6th Cir 1985\)](#); [Nacchio v. United States, 824 F.3d 1370, 1380-1381 \(Fed. Cir. 2016\)](#), cert. denied, 582 U.S. ___, 2017 U.S. S. Ct. Briefs LEXIS 1352 (2017). Courts have held that *section 162 (f)* [*3] prohibits a deduction for civil penalties "imposed for purposes of enforcing the law and as punishment for the violation thereof," and courts have also held that some payments, although labeled as "civil penalties," are deductible if "imposed to encourage prompt compliance with a requirement of the law or as a remedial measure to compensate another party." [Waldman v. Commissioner, 88 T.C. 1384, 1387 \(1987\)](#), aff'd without opinion, 850 F.2d 611 (9th Cir. 1988); [Stephens v. Commissioner, 905 F.2d 667, 672-673 \(2d Cir. 1990\)](#); see also [Southern Pacific Transp. Co. v. Commissioner, 75 T.C. 497, 646-654 \(1980\)](#). It is important to clarify that the correct analysis involves whether the payment was "a remedial measure to compensate another party," not whether the payment was "a compensatory or remedial measure." See [Stephens, 905 F.2d at 673](#). The word "remedial" is not in the statute or the regulations. The fact that a payment is "remedial" does not by itself determine the tax treatment; the tax treatment depends on whether the payment is more punitive or compensatory. If a payment serves both a nondeductible purpose and a deductible purpose, it is necessary to determine which purpose the payment [*4] primarily serves. See [id. at 673](#).

It is also important to clarify that, although the issue under *section 162 (f)* is often referred to as whether a payment is punitive or compensatory, the scope of *section 162 (f)* is not restricted to payments that are "punitive" in the narrow sense that they are imposed solely as retribution for *past* wrongdoing. The scope of "punitive" in this context includes the purpose of enforcing the law by deterring the proscribed conduct *in the future*: "Thus, it is clear that, if the deduction of a civil fine (or similar penalty) is to fall within the proscription of *section 162 (f)*, the fine must be one which *punishes and/or deters*." [Middle Atlantic Distributors, Inc. v. Commissioner, 72 T.C. 1136, 1143 \(1979\)](#) (emphasis added); see also [True v. United States, 894 F.2d 1197, 1205 \(10th Cir. 1990\)](#) (amounts paid for violating the Federal Water Pollution Control Act were not deductible because they served "a deterrent and retributive function similar to a criminal fine"). Therefore, a payment imposed primarily for purposes of deterrence and punishment is not deductible under *section 162 (f)*.

In [Kokesh v. SEC, 137 S. Ct. 1635, 198 L. Ed. 2d 86 \(2017\)](#), the United States [*5] Supreme Court held that disgorgement imposed as a sanction for violating a federal securities law was a penalty for purposes of the 5-year statute of limitations in [28 U.S.C. § 2462](#) (applicable to an action for the enforcement of any civil fine, penalty, or forfeiture). In its analysis, the Supreme Court stated that "SEC disgorgement . . . bears all the hallmarks of a penalty: It is imposed as a consequence of violating a public law and it is intended to deter, not to compensate." [Kokesh, 137 S. Ct. at 1644](#). The Court also stated that "courts have consistently held that '[t]he primary purpose of disgorgement orders is to deter violations of the securities laws by depriving

¹ We note that [section 7701 \(c\)](#) provides that the terms "includes" and "including" when used in a definition shall not be deemed to exclude other things otherwise within the meaning of the term defined. See also [§ 301.7701-16](#) of the Procedure and Administration Regulations.

violators of their ill-gotten gains." *Id. at 1643* (citing *SEC v. Fischbach Corp.*, 133 F.3d 170, 175 (2d Cir. 1997)). Because, as the Supreme Court held, disgorgement payments are penalties and are not compensatory, *section 162 (f)* prohibits a deduction under *section 162 (a)* for an amount paid as disgorgement for violating a federal securities law.

Please coordinate any litigation on this *section 162 (f)* issue with our office. Please call Christopher Wrobel at (202) 317-7011 if you have any questions.

Load Date: 2017-12-09

This document is not to be relied upon or otherwise cited as precedent by taxpayers.

Office of Chief Counsel Internal Revenue Service Memorandum

End of Document

FSA 200145011; 2001 FSA LEXIS 149

RESEARCH AND EXPERIMENTAL EXPENDITURES

US Internal Revenue Service

August 3, 2001

Reporter

2001 FSA LEXIS 149 *; FSA 200145011

Field Service Advice Memoranda 200145011

[*1]

Reference: 200145011, November 9, 2001, Released

CC:PSI:7, UILC: 0174.00-00

Core Terms

technology, partnership, expenditure, purchase option, terminate, license, research and development, experimental, realistic, common stock, private placement memorandum, redact, manufacturing and marketing, manufacture, investor, exercise price, private placement, per share, callable, partner, royalty, expire, option to purchase, new technology, exploit, advice

Text

INTERNAL REVENUE SERVICE NATIONAL OFFICE FIELD SERVICE ADVICE

MEMORANDUM FOR ASSOCIATE AREA COUNSEL--[TEXT REDACTED]

FROM: ASSOCIATE CHIEF COUNSEL (PASSTHROUGHS AND SPECIAL INDUSTRIES) CC:PSI

SUBJECT: RESEARCH AND EXPERIMENTAL EXPENDITURES

This Chief Counsel Advice responds to your memorandum dated April 16, 2001. In accordance with [I.R.C. § 6110\(k\)\(3\)](#), this Chief Counsel Advice should not be cited as precedent.

LEGEND

Taxpayer:

EIN:

A:

B:

C:

Technology:

Private Placement Memorandum:

Purchase Agreement:

License Agreement:

Development Agreement:

Manufacturing and Marketing Agreement:

Placement Agent:

Date 1:

Date 2:

Date 3:

Date 4:

Date 5:

Date 6:

Date 7:

Date 8:

Date 9:

Date 10:

Date 11:

Date 12:

Date 13:

Date 14:

Year 1:

Year 2:

Year 3:

Year 4:

Year 5:

Year 6:

r:

s: \$

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v: \$

w: \$

x: \$

y: \$

z: \$

ISSUE

Whether the expenditures paid by Taxpayer to A for research and development are "research and experimental expenditures" incurred in connection with Taxpayer's trade or business under [I.R.C. § 174](#).

CONCLUSION

The expenditures paid by Taxpayer to A for research and development are not research and experimental expenditures under [section 174](#) because Taxpayer did not [*2] have a realistic prospect of engaging in a trade or business with the Technology.

FACTS

Background

A develops and markets [TEXT REDACTED] A developed a design for the Technology, and received a U.S. patent for it on Date 4.

In Year 1, A listed its two major strategies as: [TEXT REDACTED]

In Year 2, A completed construction on an approximately s manufacturing facility for the production of [TEXT REDACTED] for use with the Technology.

On Date 1, A formed B, and financed it through a private placement of units consisting of a callable share of B, a warrant to purchase shares of A common stock, and a callable warrant to purchase shares of A stock only exercisable under certain circumstances. A held an option to purchase all of the callable shares of B after Date 2, at prices beginning at t per share on Date 3 and reaching a high of u on Date 8.

B was formed for the purpose of accelerating the development of the Technology. Soon after B's formation, B entered into three agreements with A governing the licensing of certain technology owned by A, the development and management of the technology, and the manufacturing of any products.

At the end of Year 2, A exercised its option, and repurchased [*3] all of the outstanding shares of B by issuing shares of A common stock.

Creation of the Taxpayer

Taxpayer, a [TEXT REDACTED] corporation, was formed on Date 5 for the purpose of developing [TEXT REDACTED] and [TEXT REDACTED]. It is our understanding, however, that Taxpayer has identified its business purpose as funding the development of the Technology. For further discussion, see below "Private Placement Memorandum."

Private Placement Memorandum

The Private Placement Memorandum identified and explained the risk factors, capitalization, use of proceeds from the private placement, the Technology, and the business of Taxpayer. Specifically, Taxpayer identified its purpose as funding the development of the Technology because products resulting from Taxpayer's development programs were not expected to be commercially available any earlier than Year 5, if at all. The Private Placement Memorandum also stated that substantially all of the net proceeds from the offering would be paid by Taxpayer to A under the Development Agreement.

In a section captioned "Risk Factors," the Private Placement Memorandum stated that Taxpayer would be heavily dependent on A because it would not have any of its own [*4] employees, facilities and other resources of A. These resources were listed as development, licensing, administration, manufacturing and marketing employees and facilities. Additionally, the Private Placement Memorandum generally noted that A had the sole discretion to determine the allocation of A's development, licensing, administration, manufacturing and marketing employees and facilities, and stated that A's own project development may compete for time and resources thus delaying the development, manufacture and marketing of Taxpayer's technology.

The risk factors also included the possibility that Taxpayer might need additional funds, and provided no assurance that the purchase option would be exercised. The Private Placement Memorandum stated that if a licensee was not found, it was unlikely that Taxpayer would have sufficient funds to enable it to market the Technology.

Additionally, the "Risk Factors" portion of the Private Placement Memorandum stated that the terms of the License Agreement, Development Agreement, Manufacturing and Marketing Agreement, and the Purchase Agreement were negotiated by A and the Placement Agent. The Private Placement Memorandum also noted that these [*5] terms may have been different had they been negotiated at arm's length.

Finally, Taxpayer was not expected to have its own management and would be heavily dependent on A's management. Thus, many of the officers and directors of Taxpayer were also officers or directors of A.

The Private Placement

On or about Date 6, Taxpayer and A held a private placement of units consisting of a callable share of Taxpayer's common stock and a warrant to purchase shares of A's stock. The units cost v each. The callable shares were subject to an option held by A to purchase all of the callable shares of Taxpayer's common stock at prices ranging from w per share on Date 11 to x per share on Date 13, depending on when the option was exercised. A could satisfy the option price with cash, A's common stock, or a combination of cash and A's common stock. The net proceeds from this private placement were expected to be exhausted by the end of the first quarter of Year 5, and Taxpayer used substantially all of the proceeds of the private placement to pay A the management fee required pursuant to the Development Agreement. As part of the private placement, A contributed y.

On Date 7, Taxpayer also entered into various [*6] agreements, including a Purchase Agreement, a License Agreement, a Development Agreement, and a Manufacturing and Marketing Agreement. In general, these four agreements delineated the rights and obligations between Taxpayer, A and B.

The Agreements

Purchase Agreement

The Purchase Agreement, in relevant part, granted to A an exclusive, irrevocable option to purchase all of the issued and outstanding shares of Taxpayer's common stock. The purchase option could be exercised only as to all of the issued and outstanding shares of the common stock of Taxpayer, and the exercise price ranged from w to x depending on when the purchase option was exercised. A could exercise the option by issuing its own common stock, cash, or a combination thereof.

If A exercised the purchase option, the License, Development, and Manufacturing and Marketing Agreements terminated. Taxpayer retained all rights, title, and interest in any of the developed Technology upon the expiration or termination of the purchase option. However, if A did not exercise the purchase option and Taxpayer did not find a sublicensee to conduct additional research and development, Taxpayer had to raise sufficient funds to complete the [*7] development of the Technology and market any resulting products. Additionally, Taxpayer was restricted from distributing dividends until after the expiration of the purchase option.

The purchase option would terminate if it was not exercised, or on the option closing date. Additionally, the purchase option would terminate if Taxpayer received notice from A that A failed to make the payment of the exercise price or A reorganized or filed for bankruptcy.

License Agreement

In the License Agreement with A and B, Taxpayer was granted a royalty-bearing, perpetual and exclusive license (subject to rights already held by others) to use the Technology [TEXT REDACTED]. In return, Taxpayer agreed to pay A and B a royalty of r percent of net sales of products during the life of the applicable patents or for a period of years in countries without patents. Simultaneously, Taxpayer granted A an exclusive, worldwide royalty-free license to develop the Technology and an exclusive, worldwide license to use the Technology to make, use, sell, supply and import products into the United States.

The License Agreement would continue in full force unless it was terminated by mutual agreement, Taxpayer's breach [*8] of a material obligation, Taxpayer's filing for bankruptcy, written notice of default by Taxpayer, or A's exercise of the option to purchase Taxpayer's stock. In the event of bankruptcy or breach of material obligation, A and B both had the right to terminate the License Agreement. A alone could terminate the License Agreement by exercise of the purchase option. If the License Agreement terminated because of one of the above, A generally would reacquire rights to all Technology licensed to Taxpayer.

Development Agreement

Under the Development Agreement, Taxpayer contracted with A for A to undertake, as the exclusive agent of Taxpayer, development of the Technology [TEXT REDACTED]. A had the sole power and authority under the agreement to file regulatory applications and permits in A's name. Additionally, Taxpayer agreed to pay A for costs, including direct charges from A and outside costs, incurred in the development.¹

The Development Agreement also provided that A would act as Taxpayer's exclusive agent for the manufacture and sale of Taxpayer's products. Taxpayer was to pay all costs relating to the manufacture and sale of Taxpayer's products charged to it by A. Taxpayer retained [*9] the right to any developed technology upon the expiration or termination (other than by exercise) of the purchase option, or upon the termination of the Development Agreement by Taxpayer.

The Development Agreement would continue in full force and effect until the earlier of the date at least thirty days after the date when A exercised the purchase option, or the date the purchase option expired or terminated (other than by exercise).

The Development Agreement could terminate by mutual agreement between Taxpayer and A. A could terminate the Development Agreement by exercising the purchase option, or A could terminate in the event of Taxpayer's breach of material obligation, or Taxpayer's bankruptcy. Finally, Taxpayer could terminate the Development Agreement by giving written notice to A in the event of default.

Manufacturing and Marketing Agreement

Under the Manufacturing and Marketing Agreement, Taxpayer gave A an exclusive license to manufacture, promote, and sell Taxpayer's products in the U.S. A agreed to pay Taxpayer a royalty on A's net sales of Taxpayer's products.

The Manufacturing and Marketing Agreement would continue in full force and effect until after the purchase option expired [*10] or terminated (other than by exercise), or A exercised the purchase option. The Manufacturing and Marketing Agreement could also terminate by mutual agreement between the parties. Additionally, A alone could terminate the agreement if Taxpayer breached a material obligation, or if voluntary or involuntary bankruptcy proceedings commenced against Taxpayer. Taxpayer could alone terminate the agreement by giving written notice of default.

Exercise of the Purchase Agreement

On Date 9, A notified Taxpayer's shareholders that it intended to exercise the purchase option. On Date 10, A exercised its purchase option through the merger of a newly-created, wholly-owned subsidiary of A with Taxpayer, with Taxpayer being the surviving corporation. A then purchased Taxpayer's common stock at w per share using shares of A's common stock and cash for fractional shares. A stated in its Form 10-K for the year ended Date 11 that "due to additional development, testing, and regulatory approvals required, the commercial viability of the technology acquired in these acquisitions had not yet been established."

On Date 12, Taxpayer merged into A.

¹ [TEXT REDACTED]

For the Year 2 and Year 3 taxable years, Taxpayer treated its [*11] payments to A as [section 174](#) research and experimentation expenditures. Upon examination, Taxpayer's expenditures were determined to be not in connection with Taxpayer's trade or business and were disallowed as research and experimentation expenditures.

LAW

[Section 174\(a\)](#) generally provides that a taxpayer may treat research or experimental expenditures which are paid or incurred by him during the taxable year in connection with the taxpayer's trade or business as expenses which are not chargeable to capital account. The expenditures so treated are allowed as a deduction.

[Section 174\(e\)](#) provides that [section 174](#) applies to a research or experimental expenditure only to the extent that the amount is reasonable under the circumstances.

[Treas. Reg. § 1.174-2\(a\)\(1\)](#) provides that the term "research or experimental expenditures," as used in [section 174](#), means expenditures incurred in connection with the taxpayer's trade or business which represent research and development costs in the experimental or laboratory sense. The term generally includes all such costs incident to the development or improvement of a product.

[Treas. Reg. § 1.174-2\(a\)\(6\)](#) provides that [section 174](#) applies to a research [*12] or experimental expenditure only to the extent that the amount of the expenditure is reasonable under the circumstances. Generally, the amount of an expenditure for research or experimental activities is reasonable if the amount would ordinarily be paid for like activities by like enterprises under like circumstances.

[Treas. Reg. § 1.174-2\(a\)\(8\)](#) provides that [section 174](#) applies not only to costs paid or incurred by the taxpayer for research or experimentation undertaken directly by him but also to expenditures paid or incurred for research or experimentation carried on in his behalf by another person or organization (such as a research institute, foundation, engineering company, or similar contractor).

A number of cases have delineated the scope of the trade or business requirement under [section 174](#). In [Snow v. Commissioner, 416 U.S. 500, 94 S. Ct. 1876, 40 L. Ed. 2d 336 \(1974\)](#), the Supreme Court held that the taxpayer, a limited partner in a partnership formed to develop a special purpose incinerator, could deduct experimental expenditures under [section 174](#) even though no sales of the product occurred in the disputed year. The Court noted that the purpose of [section 174](#) was to equalize [*13] the tax benefits between ongoing companies and small and growing businesses and thus construed the term "in connection with his trade or business" in [section 174](#) more liberally than the concept of "ordinary and necessary" in [section 162](#). The Court reasoned, therefore, that the current production or sale of a product was not necessary for a deduction under [section 174](#).

Snow established that a taxpayer need not currently be engaged in selling or producing a product to qualify for a [section 174](#) deduction. In [Green v. Commissioner, 83 T.C. 667 \(1984\)](#), the Tax Court addressed the issue of whether a limited partnership was entitled to a deduction for research and experimental expenditures under [section 174](#) for the acquisition, development, and licensing of inventions. The partnership entered into four separate agreements for research and development. As a result of these agreements, the partnership's trade or business activities were limited and the Court concluded that the partnership was merely a vehicle for injecting risk capital into the development and commercialization of the inventions. Noting that Snow did not eliminate the trade or business requirement altogether, the Court held [*14] that the taxpayer must still be engaged in a trade or business at some time, and the taxpayer's activities in connection with the product must be sufficiently substantial and regular to constitute a trade or business for [section 174](#) purposes. This determination is made through a factual examination of each case.

Since Green, the courts of appeal have consistently held that while the probability of a firm's going into its own business will satisfy [section 174](#), the mere possibility of doing so will not. In order for a taxpayer to demonstrate a sufficient prospect of entering into a business, there must be an objective intent (such as a profit motive) and the capability to enter into business. See [LDL Research & Development II, Ltd. v. Commissioner, 124 F.3d 1338, 1346 \(10th Cir. 1997\)](#) (reasoning that unless the partnership assumes a realistic expectation of owning the resulting technology for commercial purposes, the taxpayer's research expenditures will be made in connection with another party's trade or business and will not be deductible); [Zink v. United](#)

States, 929 F.2d 1015, 1021 (5th Cir. 1991) (noting that taxpayers must show they were involved in the trade or business in a substantial [*15] and regular enough way to meet the trade or business requirement); *Diamond v. Commissioner*, 930 F.2d 372, 375 (4th Cir. 1991) (finding that the issue was not whether it is possible, but whether when looking at economic reality the partnership possessed the capability in the years under review to enter into a trade or business); *Spellman v. Commissioner*, 845 F.2d 148, 149 (7th Cir. 1988) (discussing the realistic prospect standard for determining the probability of a taxpayer exploiting a new product in a trade or business); *Levin v. Commissioner*, 832 F.2d 403, 407 (7th Cir. 1987) (reasoning that there is a need to look to actual expectations of the parties at the time of the agreement and the firm's probability of going into business).

In *Kantor v. Commissioner*, 998 F.2d 1514 (9th Cir. 1993), the court of appeals addressed the issue of whether research expenditures made by a partnership to develop new technology were incurred in connection with its trade or business. The taxpayer invested in a limited partnership whose purpose was to develop and exploit adaptations of an existing computer program. The partnership entered into two separate agreements with a research firm. In the [*16] first agreement, the partnership contracted out the research and development to the firm; in the second agreement it granted the firm an opportunity to obtain for a nominal sum the exclusive right to market the technology. The taxpayer argued that these agreements did not preclude the taxpayer from engaging in a trade or business. In addition, the taxpayer argued that it actually engaged in the trade or business of developing and marketing the technology through the activities of its general partner. However, the court rejected these arguments by reasoning that the mere possibility of a firm going into business will not satisfy the *section 174* requirement of a trade or business. The general partner's activities in the business were indicative merely of an active investor and were purely ministerial. The key factors the court looked at were the nominally priced option to purchase the exclusive marketing license and the fact that the partnership rendered itself virtually incapable of becoming anything more than an investor. Additionally, the court found that it was unlikely that the partnership would have had the resources to market the software if the option price was not exercised [*17] because the private placement memorandum indicated that the partnership would spend ninety percent of the funds raised on research activities. Thus, if the firm did not exercise its option, the partnership would lack the necessary funds to market and license the program directly to consumers.

In *Spellman v. Commissioner*, 845 F.2d 148 (7th Cir. 1988), the court of appeals considered whether the taxpayer had a realistic prospect for developing a new product and exploiting it in its business. The taxpayer was a limited partner in a partnership that was, in turn, a limited partner in another partnership (Sci-Med). The agreement creating Sci-Med provided that Sci-Med would enter into a research and development agreement with Teva Pharmaceutical Industries (Teva) for Teva to develop new medicines. Under the agreement, Teva would have the exclusive rights to make, sell, and license the new medications. In addition, Teva was given an option to purchase Sci-Med's rights to byproducts of the research. The taxpayer argued that the rights would not vest in Teva until the products were actually developed, and until then the rights remained with Sci-Med. However, the court found that Sci-Med could [*18] only be viewed as an investor and not an entrepreneur because Sci-Med contracted out the research and development, as well as the production and marketing. Additionally, although Sci-Med had a prospect of recovering royalties and byproducts rather than selling or licensing their development to another firm, this was a remote possibility because Sci-Med presented no evidence that it would ever acquire a staff, experience, or anything else necessary to enter into the business. Finally, the court focused on the \$ 20,000 exercise price for Teva's option. If the byproducts were worth more than the exercise price, Teva was sure to exercise it, and Sci-Med would be left without a product to sell. However, if the rights turned out to be worth less than the exercise price, Sci-Med would have to invest its own money to market rights that were worth only a nominal amount and the cost of this would probably exceed the value of the byproduct rights.

In *Scoggins v. Commissioner*, 46 F.3d 950 (9th Cir. 1995), the Ninth Circuit addressed the issue of whether research expenditures made by a partnership formed in order to develop new technology with respect to an epitaxial reactor were incurred in the [*19] taxpayer's trade or business. The taxpayers were the sole partners in the partnership and formed a corporation in which they held the majority interest. The partnership contracted with the corporation for the corporation to perform the research to develop the new technology, the partnership retaining ownership of any technology developed. Additionally, the partnership gave the corporation a non-exclusive license to market the technology for a fifteen-month period together with an option to acquire the technology for \$ 5 million after the license expired. The court framed the issue in terms of whether the partnership had a realistic prospect of engaging in a trade or business. The court reasoned that there was a realistic prospect of the partnership engaging in a trade or business despite a lack of facilities or employees because both partners had the technical expertise to market the technology and had previous experience marketing similar technology.

Additionally, the partners were actively involved in the development of the technology by directing and guiding the research undertaken by the corporation. Finally, the court distinguished this active partnership from one composed primarily [*20] of investors who know little or nothing about new technology. Thus, the court held that the partnership's contractual arrangement and activities indicated both an objective intent and the capability to enter such business. But see *I-Tech R&D Limited Partnership v. Commissioner, T.C. Memo. 2001-10* (denying a *section 174* deduction where the taxpayer neither invented nor developed any of the discovered technology, and maintained no control over the research and development of the product).

In *Harris v. Commissioner, 16 F.3d 75 (5th Cir. 1994)*, the court of appeals addressed the issue of whether the taxpayer was undertaking its own business or that of another. In *Harris*, a limited partnership was formed to sell limited partnership interests to the public to raise capital for continuing research and development. The partnership executed a research and development agreement under which the partnership contracted out all of the research work to a newly formed corporation. The partnership also executed a technology transfer agreement whereby the corporation received an option to obtain a perpetual exclusive license for the resulting technology. If it exercised the option, the corporation [*21] would have to pay substantial royalties to the partnership. However, it was highly probable that the corporation would renegotiate the licensing option to provide for lower royalty payments. The court reasoned that nearly all cases involve a profit motive; dispositive, however, is whether the entity actually incurring the research expenses "actually managed and actually controlled the use or marketing of the research results." *Harris, 16 F.3d at 80*. In *Harris*, the partnership had no remaining funds to engage in marketing efforts, and no expertise in the industry. The court held that the partnership was merely a passive investment vehicle and there was not a realistic prospect of engaging in a trade or business because the underlying economic realities suggested it was unlikely that the partnership would develop and exploit the technology through manufacturing a product or licensing the technology.

In *Levin v. Commissioner, 832 F.2d 403 (7th Cir. 1987)*, [*22] the court addressed the issue of whether the taxpayer was engaged in its own business or that of another. In *Levin*, a mechanical engineer and a tax lawyer formed partnerships to indirectly acquire funds for the expansion of the engineer's machinery business. On paper, the partnerships possessed substantial privileges, but the court looked to the actual expectations of the parties at the time the partnerships were formed and whether the partnerships reasonably anticipated availing themselves of the privileges they possessed on paper. The partnerships were controlled by the engineer's machinery business and had no independent expertise in the machinery business. The court reasoned that while every investor may have the potential to be a manufacturer, determinative is the firm's probability of going into the manufacturing business. The court held that the partnerships were formed to invest money into the partner's existing business, and thus were simply investors in the business of another.

ANALYSIS

The issue in this request for Field Service Advice is whether expenditures paid by Taxpayer to A for research and development are "research and experimental expenditures" incurred in connection [*23] with Taxpayer's trade or business under *section 174*. Integral to this inquiry is the question of whether Taxpayer had a realistic prospect of entering into the trade or business of research and development in the years in question. Taxpayer must have been more than a passive investor. To distinguish between a taxpayer who was merely a passive investor and a taxpayer who had a realistic prospect of eventually engaging in a trade or business in connection with research and development expenditures, the following factors are relevant, including: (1) the intent of the parties to the agreements; (2) the amount of capital retained by the taxpayer during the conduct of the research activity; (3) the exercise of control by the taxpayer over the person or entity performing the research; (4) the business activity of the taxpayer during the years in question; and (5) the experience of the taxpayer and others involved in the research. See, e.g., *Scoggins v. Commissioner, 46 F.3d 950 (9th Cir. 1995)*; *Diamond v. Commissioner, 930 F.2d 372 (4th Cir. 1991)*; *Levin v. Commissioner, 832 F.2d 403 (7th Cir. 1987)*.

Realistic Prospect

In *Green v. Commissioner, 83 T.C. 667 (1984)*, the Tax Court stated that [*24] for *section 174* to apply, the taxpayer must be engaged in a trade or business at some time. As noted in *Green*, this involves both the objective intent and capability of entering the business. This is a factual determination that requires a close examination of the facts and circumstances of each transaction, particularly as they existed in the transaction's formative years.

Under the facts of this case, Taxpayer did not have control of the research that had been contracted out to A. It did not direct the research and development and maintained only the rights to any resulting technology. Taxpayer was under the direction of

A because A's officers and executives also served as officers and directors of Taxpayer. Additionally, Taxpayer did not have research facilities or employees. Under the terms of the various agreements, Taxpayer was prohibited from retaining experienced employees from A or B. Finally, although Taxpayer retained the right to the underlying technology, A also retained an option to purchase all of Taxpayer's common stock. Although Taxpayer argues that this is inherently different from an option to buy the underlying technology, we fail to see the difference because [*25] under the facts of this case A would control Taxpayer through one hundred percent stock ownership. The License Agreement also would terminate upon exercise of the purchase option leaving Taxpayer with only a small amount of developed technology to exploit.

In a letter to Respondent's counsel dated Date 14, Taxpayer's counsel suggests that Taxpayer must be contractually precluded from entering a trade or business for there not to be a realistic prospect of it entering into a trade or business. However, this reasoning fails because a determination of whether there is a realistic prospect of entering into a trade or business with respect to new technology is not limited to the four corners of the operative documents and must necessarily include a consideration of extrinsic facts and circumstances. Thus, Taxpayer need not be contractually precluded from entering into a trade or business in this case. We must look to what Taxpayer's rights were realistically and to Taxpayer's intent to exercise those rights.

In reality, although Taxpayer had the rights to any underlying technology that was developed, the Technology had not been fully developed. Also Taxpayer did not have the facilities [*26] or experienced and trained employees to develop the Technology. Furthermore, even if Taxpayer could raise more money to continue the research and development of the Technology, it would do so at a substantial cost because it lacked the facilities to conduct the research, development, and production of the Technology.

Significant Exercise Price

One important factor that cannot be ignored is if the exercise price of the purchase option is significant. In this case, the exercise price could be viewed as significant because it was arguably for a substantial amount, increasing quarterly over a period of years. This amount, whether exercised at the beginning of the period A could exercise its purchase option or at the end, ranged from w per share in Year 4 to x per share in Year 6 and would total at least z.

Again, however, the main question is whether Taxpayer had a realistic prospect of engaging in a trade or business in the years in question. The fact that the purchase option price could be considered to be high is an important consideration but should not detract from the principal inquiry. As stated earlier, it is highly unlikely that Taxpayer had a realistic prospect of engaging in a [*27] trade or business during the years in question because of Taxpayer's lack of infrastructure, financing (if the purchase option was not exercised), and control over the research and development of the Technology under the agreements in effect at the time.

Engaging in the Business of Another

Taxpayer also may be seen as engaging in the business of another entity, in this case, A. See [Levin v. Commissioner, 832 F.2d 403 \(7th Cir. 1987\)](#). This is because Taxpayer maintained the same corporate office as A and had the same officers and directors. Moreover, Taxpayer depended on A for its research and production facilities.

Additionally, Taxpayer could not have been anything more than a mere investor because Taxpayer was controlled by A through the same officers and directors. A conducted the research and development of the products, and Taxpayer merely licensed the rights to the Technology in exchange for royalties. Taxpayer also did not direct or control the research and development and merely owned the resulting technology.

Finally, Taxpayer was merged with A after the exercise of the purchase option. We may not look to this as evidence of whether Taxpayer could engage in a trade or business. [*28] However, the court may look to see if subsequent events are consistent with the court's judgment of the facts. See [Levin, 832 F.2d at 406 n.3](#).

CASE DEVELOPMENT, HAZARDS AND OTHER CONSIDERATIONS

[TEXT REDACTED]

This writing may contain privileged information. Any unauthorized disclosure of this writing may have an adverse effect on privileges, such as the attorney client privilege. If disclosure becomes necessary, please contact this office for our views.

Please call if you have any further questions.

By: LESLIE H. FINLOW, Chief, Branch 7, (Passthroughs and Special Industries)

Load Date: 2006-01-19

This document is not to be relied upon or otherwise cited as precedent by taxpayers.

End of Document

PLR 8403028; 1983 PLR LEXIS 1219

US Internal Revenue Service

October 17, 1983

Reporter

1983 PLR LEXIS 1219 *; PLR 8403028

Private Letter Ruling 8403028

[*1]

UI List:

UI No. 0368.01-00; Definitions relating to corporate reorganizations; Statutory merger or consolidation

Core Terms

merge, stock, merger, shareholder, common stock, reorganize, outstand, predecessor, owes

Text

This is a reply to a letter from your authorized representative dated June 10, 1983, requesting rulings as to the federal income tax consequences of a proposed transaction. Additional information was submitted in a letter dated August 25, 1983. The information submitted for consideration is substantially as set forth below.

Parent is a State X corporation primarily engaged in processing * * * which is purchased by Acquiring. Parent has one wholly-owned * * * subsidiary which * * * and sells * * * to Acquiring. It is not a party to the reorganization and will survive as a subsidiary of the Acquiring corporation. Parent has authorized capital of 100,000 shares of no par value common stock of which 3,000 shares are issued as outstanding. The outstanding shares of Parent are held by four individuals and three trusts.

Sub 1 is a State X corporation and distributes * * * stores in the United States and outside the United States. Sub 1 is a wholly-owned subsidiary of Parent with 1,200 shares of \$1.00 par value common stock issued and outstanding.

Sub 2 is a State X corporation [*2] and is principally engaged in the business of research and development of products in the music industry. It has issued and outstanding 500 shares of \$10.00 par value common stock, all of which are owned by Sub 1.

Acquiring is a State X corporation and is primarily engaged in the business of manufacturing * * * instruments. Its suppliers for the raw material used in the manufacturing of * * * are principally located in * * *. Acquiring has an authorized capitalization of 20,000 shares of \$10.00 par value common stock of which 1,530 shares are issued and outstanding and held by three trusts and two individuals.

There are various intercorporate debts between the parties. Acquiring owes Parent approximately \$370,000 representing about one month's processing charges. Sub 1 owes Acquiring approximately \$155,000 representing payment due on goods purchased. All the above amounts arose in the ordinary course of business and no amount is in arrears. In addition, Parent owes Sub 2 approximately \$22,000 for sums advanced to Parent by Sub 2.

Sub 2 owes \$428,000 to Sub 1 resulting principally from working capital advances to Sub 2's predecessor corporation ("Predecessor") during 1977, [*3] 1978, 1979 and 1980. Said amount represents working capital loans and were not considered capital contributions. Predecessor was a corporation wholly owned by Sub 1 which manufactured * * * instrument

accessories. When Sub 1 decided to discontinue that manufacturing and sales activity, the operating assets of Predecessor were sold to a third party in May, 1980. Thereafter, Predecessor was merged into Sub 2 as of August 31, 1980. As a preliminary step to the proposed merger, Sub 1 shall gratuitously cancel approximately \$200,000 (or such other amount) of such debt so that the basis of Sub 2's assets will exceed the total amount of its liabilities prior to the proposed merger.

The shareholders of Acquiring and Parent are related individuals so that "control" of both corporations is held by the same individuals. Also as indicated above, there is a close relationship in so far as the corporations' respective business operations are concerned. Managements of the constituent corporations have decided that it would be significantly more simple to operate the integrated portions of these businesses as a single entity, and thereby reduce the number of accounting entries required, and [*4] the multiplicity of financial statements and tax returns which must be prepared.

Accordingly, and pursuant to a Merger Agreement and Plan of Reorganization ("Plan"), the following is proposed:

- (i) Pursuant to State X law, Parent, Sub 1 and Sub 2 ("Merged Corporations") will be separately merged with and into Acquiring. Acquiring will acquire all of the assets and assume all of the liabilities of each respective Merged Corporation. Thereafter, the separate corporate existences of each Merged Corporation will cease and Acquiring will continue their respective active businesses.
- (ii) Each share of Parent common stock shall be exchanged for and converted into one or more certificates of Acquiring common stock. A definitive exchange ratio will be fixed prior to the merger. Since Sub 1 and Sub 2 are wholly-owned subsidiaries of Parent, and their values are reflected in the consolidated net worth of Parent, no shares of Acquiring will, as such, be issued on account of the outstanding shares of Sub 1 and Sub 2, respectively. Fractional share interests will be issued.

There will be no dissenters to the proposed transaction.

As a matter of State X law, all debts of a Merged Corporation which [*5] were owed to the Acquiring prior to a merger, will be extinguished by operation of law.

The following representations have been made with respect to the proposed transaction:

- (a) The fair market value of the Acquiring shares to be received by the shareholders of Parent will, in each instance, be approximately equal to the fair market value of the Acquiring shares surrendered in exchange therefor, based on the exchange ratio to be determined.
- (b) The liabilities of the Merged Corporations to be assumed by Acquiring were incurred in the ordinary course of business and are associated with the assets to be transferred.
- (c) Acquiring will pay for its own expenses and the reorganization expenses of the Merged Corporations. These expenses will be paid directly to the creditors of the Merged Corporations. The shareholders of Parent will each pay their own expenses incurred in connection with the proposed transaction.
- (d) The shareholders of Parent have no plan intention to sell or otherwise dispose of Acquiring stock to be received as a result of the proposed merger.
- (e) Acquiring has no plan or intention to redeem or otherwise reacquire any of its stock to be issued in connection with the proposed [*6] merger.
- (f) Acquiring has no plan or intention to sell or otherwise dispose of the assets of the Merged Corporations.
- (g) None of the corporations is an investment company as defined in [section 368\(a\)\(2\)\(F\)\(iii\)](#) and [\(iv\) of the Internal Revenue Code](#).
- (h) There is no intercorporate indebtedness existing between any of the Merged Corporations and Acquiring which was issued, acquired, or will be otherwise settled at a discount.
- (i) The fair market value and adjusted bases of the assets of each of the Merged Corporations to be transferred to Acquiring will each exceed the sum of their respective liabilities to be assumed by Acquiring plus the amount of liabilities, if any, to which their transferred assets are subject.

Based solely on the information submitted and representations made, it is held as follows:

- (1) Provided that the merger of each Merged Corporation with and into Acquiring qualifies as a statutory merger under the applicable laws, each merger will constitute a reorganization within the meaning of [section 368\(a\)\(1\)\(A\) of the Internal](#)

Revenue Code. Acquiring and each Merged Corporation will be a "party to a reorganization" within the meaning of section 368(b).

(2) No gain or loss [*7] will be recognized to each Merged Corporation on the transfer of their respective assets to Acquiring in exchange for Acquiring stock and the assumption by Acquiring of their liabilities (except for the liabilities of Sub 2 forgiven by Sub 1) (section 361(a) and 357(a); Rev.Rul. 78-330, 1978-2 C.B.).

(3) No gain or loss will be recognized to Acquiring on the receipt of the assets of Merged Corporations in exchange for its stock (section 1032(a)).

(4) The basis of the Merged Corporations' assets in the hands of Acquiring will be the same as the basis of those assets in the hands of each Merged Corporation immediately prior to the transaction (section 362(b)).

(5) The holding period of the Merged Corporations' assets in the hands of Acquiring will include the period during which such assets were held by each Merged Corporation (section 1223(2)).

(6) No gain or loss will be recognized to Parent, Sub 1 or the shareholders of Parent, on the receipt of Acquiring stock solely in exchange for the stock of Parent, Sub 1 and Sub 2 (section 354(a)(1)).

(7) The basis of the Acquiring stock to be received by the shareholders of Parent, and constructively by Parent and Sub 1, will be the same as the [*8] basis of the Parent, Sub 1 and Sub 2 stock respectively surrendered in exchange therefor (section 358(a)(1)).

(8) The holding period of the Acquiring stock to be received by Parent shareholders and constructively by Parent and Sub 1, will include the period during which the Parent, Sub 1 and Sub 2 stock respectively surrendered in exchange therefor was held, provided that the Parent, Sub 1 and Sub 2 stock is held as a capital asset in the hands of Parent shareholders, Parent and Sub 1 respectively, on the date of the exchange (section 1223(1)).

(9) As provided by section 381(c)(2) of the Code and section 1.381(c)(2)-1 of the Income Tax Regulations. Acquiring will succeed to and take into account the earnings and profits, or deficit in earnings and profits, of each Merged Corporation as of the date or dates of the transfer. Any deficit in earnings and profits of Acquiring or the Merged Corporations will be used only to offset earnings and profits accumulated after the date or dates of transfer.

No opinion is expressed about the tax treatment of the transaction under other provisions of the Code and Regulations or about the tax treatment of any conditions existing at the time of, or affects [*9] resulting from the transaction that are not specifically covered by the above rulings. This ruling has no effect on any earlier documents and is directed only to the taxpayer who requested it. Section 6110(j)(3) of the Internal Revenue Code provides that it may not be used or cited as precedent.

A copy of this letter should be attached to the federal income tax returns of the taxpayers involved for the taxable year in which the transaction covered by this ruling letter is consummated.

Pursuant to a power of attorney on file in this office, a copy of this ruling is being sent to your authorized representative.

John T. Carr

Acting Chief, Reorganization Branch

Load Date: 2005-09-27

This document may not be used or cited as precedent. Section 6110(j)(3) of the Internal Revenue Code.

PLR 8421031; 1984 PLR LEXIS 4977

US Internal Revenue Service

February 17, 1984

Reporter

1984 PLR LEXIS 4977 *; PLR 8421031

Private Letter Ruling 8421031

[*1]

UI List:

UI No. 0351.01-00; Transfer to corporation controlled by transferor; Control v. no control by transferor

Core Terms

stock, the will, common stock, shareholder, subsidiary, merger, par value, outstand, affiliated group, consolidated, indebtedness, wholly-owned, common parent, taxable year, nonvoting, federal income tax, proposed transaction, course of business, holding period, excess loss, set forth, information submitted, natural resources, no plan

Text

This is in reply to a letter dated August 12, 1983, requesting rulings as to the federal income tax consequences of a proposed transaction. Additional information was submitted in a letter dated October 31, 1983. The information submitted for consideration is substantially as set forth below.

Corp B is a State V corporation engaged in the business of marketing of raw materials as a sales agent or a broker. It has outstanding 7,684 shares of Class A, voting, \$100 par value common stock and 7,684 shares of Class B, nonvoting, \$100 par value common stock. The stock of Corp B is held by individuals who are all related. The affiliated group of which Corp B is the common parent files consolidated federal income tax returns based on the calendar year and each member corporation is on the accrual method of accounting.

Corp C is a State X corporation engaged in natural resource exploration and production. It has outstanding 1,000 shares of \$100 par value common stock, which are owned by Corp B.

Corp D is a State V corporation engaged in the business of research and development. It has [*2] outstanding 5,000 shares of \$1 par value common stock, which are owned by Corp B.

Corp E is a State W corporation engaged in the business of maintenance and management of investments in natural resource exploration and production and other investments. It has outstanding 100 shares of \$1 par value common stock, which are owned by Corp B.

Corp F is a State V corporation engaged principally in the business of acquisition and leasing of property containing a certain natural resource. It has outstanding 210 shares of \$200 par value common stock, which are owned by Corp B.

Corp G is a State V corporation engaged principally in the business of leasing real estate. It has outstanding 5,000 shares of \$200 par value common stock, which are owned by Corp B.

Corp H is a State X corporation engaged principally in the business of river terminal bulk commodity handling. It has outstanding 100 shares of \$5 par value common stock, which are owned by Corp B.

Corp I is a State V corporation engaged in the business of equipment leasing. It has outstanding 3,000 shares of \$1 par value common stock, which are owned by Corp B.

Corp J is a State Y corporation engaged in the business of selling a certain natural [*3] resource. It has outstanding 1,000 shares of \$1 par value common stock, which are owned by Corp B.

Corp K is a State Z corporation principally engaged in the business of leasing a terminal for a natural resource. It has outstanding 10,000 shares of \$10 par value common stock. Corp B owns 4,800 shares of the Corp K common stock. Corp K, as the parent of the consolidated group consisting of Corp K and Corp L, files consolidated federal income tax returns based on the calendar year, and both corporations are on the accrual method of accounting.

Corp L is a State W corporation engaged principally in the business of maintenance and management of investments in natural resource exploration and production and other investments. It has outstanding 100 shares of \$1 par value common stock, which are owned by Corp K.

The following transaction has been proposed:

- (i) Corp A will be incorporated in State V by one incorporator acting as a nominee on behalf of Corp B. Corp A will have an authorized capital structure of at least 10,000 shares of voting common stock and 10,000 shares of nonvoting common stock. The incorporator will subscribe for one share of voting common stock. After completion [*4] of the proposed transaction, the share of common stock purchased by the incorporator of Corp A will be repurchased at a price equal to the consideration paid for such share by the incorporator.
- (ii) Corp B will transfer its 4,800 shares of the Corp K common stock to Corp E.
- (iii) The shareholders of Corp B will transfer all of their stock in Corp B to Corp A in exchange for all of the stock of Corp A. Each shareholder of Corp B will receive a percentage ownership of the voting and nonvoting stock of Corp A equal to such shareholder's respective percentage ownership of the voting and nonvoting stock that he held in Corp B.
- (iv) Thereafter, Corp B will transfer all of the stock of its wholly-owned subsidiaries, Corp C, Corp D, Corp E, Corp F, Corp G, Corp H, Corp I, and Corp J, to Corp A. Corp B will also transfer all of the receivables owed to it by its subsidiaries to Corp A. These receivables resulted from advances that Corp B had made to its subsidiaries.
- (v) Thereafter, Corp A will cause Corp C to merge with and into Corp E pursuant to applicable state law. Corp E will acquire all of the assets and will assume all of the liabilities of Corp C. The separate corporate existence of [*5] Corp C will cease and Corp E will survive the merger. The Corp C stock will be cancelled. No additional Corp C stock will be issued to Corp A as a result of this merger.
- (vi) Corp A will then join with Corp B and the wholly-owned subsidiaries in filing a consolidated federal income tax return for the 1983 calendar year.

The purpose of steps (i)-(iv) above is to provide organizational flexibility and to protect the wholly-owned subsidiaries' assets and the assets of Corp K from possible exposure to liabilities of Corp B. The purpose of step (v) is to eliminate the burdensome state law filing requirements of Corp C and to alleviate some of the other administrative burdens of Corp C.

The following additional representations have been made with respect to step (ii) above:

- (a) No services are to be performed by any transferor for or on behalf of Corp E in connection with the transaction. No stock or securities will be issued for services rendered to or for the benefit of Corp E in connection with the proposed transaction. No stock or securities will be issued for indebtedness of Corp E that is not evidenced by a security or for interest on indebtedness of Corp E which accrued on or after [*6] the beginning of the holding period of Corp B for any such debt.
- (b) The transfer is not the result of the solicitation by a promoter, broker or investment house.
- (c) Corp B will not retain any rights in any of the stock of Corp K transferred to Corp E.
- (d) There is no debt relating to the stock being transferred that is being assumed by Corp E (or to which the stock being transferred will be subject). No liabilities or encumbrances of Corp B are to be assumed by Corp E.
- (e) Corp B is indebted to Corp E because of certain advances Corp E has made to Corp B. This indebtedness will not be affected by the transfer of the Corp K stock to Corp E. There will be no indebtedness created in favor of Corp B as a result of the transaction.

(f) The transfer and constructive exchange will occur under a plan agreed upon by Corp B and Corp E before the transaction in which the rights of the parties are defined. All of the stock of Corp K owned by Corp B will be transferred on the same date.

(g) Taking into account any issuance of additional shares of Corp E stock; any issuance of stock for services; the exercise of any Corp E stock rights, warrants, or subscriptions; a public offering of Corp E stock; [*7] and the sale, exchange, transfer by gift, or other disposition of any stock of Corp E to be received in the exchange, the transferor, Corp B, will be in control of Corp E within the meaning of [section 368\(c\) of the Internal Revenue Code](#). Note, however, that Corp B will transfer its shares of Corp E to Corp A as set forth in step (iv) above.

(h) Corp E will remain in existence and retain and use the property transferred to it in connection with its current trade or business.

(i) Corp E has no plan or intention of disposing of any of the Corp K stock transferred to it by Corp B other than in the normal course of business operations.

(j) Each of the parties to the transaction will pay its own expenses, if any, incurred in connection with the proposed transaction.

(k) Corp E is not an investment company within the meaning of [section 351\(e\)\(1\) of the Code](#) and [section 1.351-1\(c\)\(1\)\(ii\) of the Income Tax Regulations](#).

(l) Corp B is not under the jurisdiction of a court in a title 11 or similar case (within the meaning of [section 368\(a\)\(3\)\(A\) of the Code](#)).

(m) Corp E will not be a "personal service corporation" within the meaning of [section 269A of the Code](#).

The following additional representations [*8] have been made with respect to step (iii) above:

(a) No services are to be performed by any transferor for or on behalf of Corp A in connection with the transaction. No stock or securities will be issued for services to or for the benefit of Corp A in connection with the proposed transaction. No stock or securities will be issued for indebtedness of Corp A that is not evidenced by a security or for interest on indebtedness of Corp A which accrued on or after the beginning of the holding period of the Corp B shareholders for any such debt.

(b) The transfer is not the result of the solicitation by a promoter, broker or investment house.

(c) The Corp B shareholders will not retain any rights in any of the stock of Corp B transferred to Corp A.

(d) There is no debt relating to the Corp B stock being transferred that is being assumed by Corp A (or to which the stock being transferred will be subject). No liabilities or encumbrances of the Corp B shareholders are to be assumed by Corp A.

(e) There is no indebtedness between Corp A and the shareholders of Corp B and there will be no indebtedness created in favor of the shareholders of Corp B as a result of the transaction.

(f) The transfers [*9] and exchanges will occur under a plan agreed upon before the transaction in which the rights of the parties are defined and all exchanges will occur on approximately the same date.

(g) There is no plan or intention on the part of Corp A to redeem or otherwise reacquire any stock or indebtedness to be issued in the proposed transaction.

(h) Taking into account any issuance of additional shares of Corp A stock; any issuance of stock for services; the exercise of any Corp A stock rights, warrants, or subscriptions; a public offering of Corp A stock; and the sale, exchange, transfer by gift, or other disposition of any of the stock of Corp A to be received in the exchange, the transferor Corp B shareholders will be in "control" within the meaning of [section 368\(c\) of the Code](#).

(i) Each Corp B shareholder will receive Corp A stock approximately equal to the fair market value of the Corp B stock transferred to Corp A.

(j) Corp A will remain in existence and retain and use the property transferred to it in the primary trade or business of a holding company.

(k) Corp A has no plan or intention of disposing of any of the stock transferred to it by the Corp B shareholders other than in the normal [*10] course of business operations.

(l) Each of the parties to the transaction will pay its own expenses, if any, incurred in connection with the proposed transaction.

(m) Corp A will not be an investment company within the meaning of [section 351\(e\)\(1\) of the Code](#) and [section 1.351-1\(c\)\(1\)\(ii\) regulations](#).

(n) The Corp B shareholders are not under the jurisdiction of a court in a title 11 or similar case (within the meaning of [section 368\(a\)\(3\)\(A\) of the Code](#)). The stock received by the Corp B shareholders will not be used to satisfy the indebtedness of such debtor.

(o) Corp A will not be a "personal service corporation" within the meaning of [section 269A of the Code](#).

(p) Corp A has no plan or intention of disposing of any of its stock in Corp B or of the wholly-owned subsidiaries received from Corp B.

The following additional representations have been made with respect to step (v) above:

(a) The liabilities of Corp C to be assumed by Corp E in the merger were incurred in the ordinary course of business and are associated with the assets to be transferred.

(b) After the merger of Corp C with and into Corp E, Corp E will continue the business previously conducted by Corp C.

(c) Each of the parties [*11] to the transaction will pay its own expenses, if any, arising out of the transaction.

(d) Corp E has no plan or intention of disposing of any of the assets to be received from Corp C except in the ordinary course of business.

(e) At the time of the merger of Corp C with and into Corp E, the stock of Corp C and Corp E will be owned substantially by the same persons in the same proportion within the meaning of [section 368\(a\)\(2\)\(F\)\(v\) of the Code](#), because Corp A will own 100 percent of the outstanding stock of Corp C and Corp E.

(f) There is no intercorporate debt between Corp C and Corp E which was issued or acquired at a discount.

(g) At the time of the merger of Corp C with and into Corp E, the fair market value of the assets of Corp C to be transferred to Corp E will equal or exceed the sum of the liabilities of Corp C to be assumed by Corp E plus the amount of the liabilities, if any, to which the transferred assets are subject.

(h) Corp C is not under the jurisdiction of a court in a title 11 or similar case, within the meaning of [section 368\(a\)\(3\)\(A\) of the Code](#).

Based solely on the information submitted and the representations set forth above, it is held as follows with respect to step [*12] (ii) above:

(1) No gain or loss will be recognized by Corp B upon the transfer of the Corp K stock to Corp E ([Rev.Rul. 64-155, 1964-1 C.B. 138](#) and [section 351\(a\) of the Internal Revenue Code of 1954](#)).

(2) No gain or loss will be recognized by Corp E upon its receipt of the Corp K stock from Corp B ([section 1032\(a\)](#)).

(3) The basis of the shares of Corp E held by Corp B will be the same as the basis of the Corp E stock held immediately before the transfer by Corp B, increased by the basis of the Corp K stock held by Corp B immediately before their transfer by Corp B to Corp E ([section 358\(a\)](#)).

(4) The basis of the Corp K stock in the hands of Corp E will be the same as the basis of the Corp K stock in the hands of Corp B ([section 362\(a\)](#)).

(5) The holding period of the Corp K stock in the hands of Corp E will include the period during which these shares were held by Corp B ([section 1223\(2\)](#)).

Based solely on the information submitted and the representations set forth above, it is held as follows with respect to step (iii) above:

(1) No gain or loss will be recognized by the Corp B shareholders upon the transfer of their Corp B stock to Corp A solely in exchange for the stock of Corp A ([section 351\(a\)](#)).

(2) [*13] No gain or loss will be recognized by Corp A upon receipt of the Corp B stock in exchange for shares of Corp A stock ([section 1032\(a\)](#)).

(3) The basis of the Corp B stock to be received by Corp A will be the same as the basis of such stock in the hands of the Corp B shareholders immediately prior to the exchange ([section 362\(a\)](#)).

(4) The holding period of the Corp B stock to be received by Corp A will include the respective periods during which such stock was held by the Corp B shareholders ([section 1223\(2\)](#)).

(5) The basis of the Corp A voting and nonvoting common stock to be received by the Corp B shareholders will be the same as the basis of the respective voting and nonvoting Corp B stock surrendered in exchange therefor ([section 358\(a\)](#)).

(6) The holding period of the Corp A voting and nonvoting common stock to be received by the Corp B shareholders will include the period during which the respective voting and nonvoting Corp B stock for which it was exchanged was held, provided such voting and nonvoting stock was held as a capital asset on the date of the exchange ([section 1223\(1\)](#)).

Based solely on the information submitted and the representations set forth above, it is held as follows [*14] with respect to step (v) above:

(1) Provided that the merger of Corp C with and into Corp E qualifies as a statutory merger under applicable state law, the merger will constitute a reorganization within the meaning of [section 368\(a\)\(1\)\(A\) of the Code](#). Corp C and Corp E will each be a "party to a reorganization" within the meaning of [section 368\(b\)](#).

(2) No gain or loss will be recognized to Corp C on the transfer of its assets to Corp E in constructive exchange for Corp E stock and the assumption by Corp E of the liabilities of Corp C ([sections 361\(a\)](#) and [357\(a\)](#)).

(3) No gain or loss will be recognized to Corp E on the receipt of the assets of Corp C in constructive exchange for shares of the stock of Corp E ([section 1032\(a\)](#)).

(4) The basis of the Corp C assets in the hands of Corp E will be the same as the basis of those assets in the hands of Corp C immediately prior to the transaction ([section 362\(b\)](#)).

(5) The holding period of the Corp C assets in the hands of Corp E will include the period during which such assets were held by Corp C ([section 1223\(2\)](#)).

(6) No gain or loss will be recognized by Corp A on the constructive receipt of Corp E stock in exchange of the Corp C stock ([section 354\(a\)\(1\)](#)).

(7) [*15] In the event that no excess loss account in the Corp C stock exists on the date of the merger, any basis of Corp A in the Corp C stock will be added to the basis of Corp A in the Corp E stock ([section 358\(a\)\(1\)](#)).

(8) Pursuant to [section 381\(a\) of the Code](#) and section 1.381(a)-1 of the regulations, Corp E will succeed to and take into account the items of Corp C described in [section 381\(c\)](#). These items will be taken into account by Corp E subject to the conditions and limitations specified in [sections 381, 382\(b\)](#), and [383](#) and the regulations thereunder.

Based solely on the information submitted and the representations set forth above, and provided that (1) Corp A and its wholly-owned subsidiaries file a consolidated return and are members of the same affiliated group of corporations within the meaning of [sections 1501](#) and [1504\(a\) of the Code](#), and (2) the distribution by Corp B to Corp A of the stock of the wholly owned subsidiaries is not a distribution within the meaning of [section 355 of the Code](#), it is further held as follows:

(1) The distribution by Corp B to Corp A of (a) the stock of the wholly-owned subsidiaries and (b) the advances of Corp B previously made to such subsidiaries, [*16] which constitutes a dividend, during a consolidated return year, shall be eliminated, provided that the dividend means a distribution which is described in [section 301\(c\)\(1\) of the Code](#) other than a distribution described in [section 243\(c\)\(1\)](#). With respect to any portion of the distribution described in [section 301\(c\)\(2\)](#) or [\(3\)](#), no gain shall be recognized to Corp A; the basis of Corp B stock held by Corp A shall be adjusted as provided in

section 1.1502-14(a)(2) of the regulations. Any gain or loss recognized to Corp B shall be deferred as provided in section 1.1502-14(c).

(2) Provided that the stock of and advances to the wholly-owned subsidiaries that are received by Corp A from Corp B are received in a distribution to which [section 301 of the Code](#) applies, the basis of the stock and advances to the wholly-owned subsidiaries in the hands of Corp A shall be determined under [section 301\(d\)\(2\)\(B\)](#) ([section 1.1502-31\(b\)\(1\)](#)). [Section 1.1502-31\(b\)\(1\) of the regulations](#) provides that the basis of property received in a distribution to which [section 301](#) applies shall be determined under [section 301\(d\)\(2\)\(B\)](#).

(3) The transactions described above shall not have an effect upon the existence [*17] of Corp K and Corp L as an affiliated group, nor shall such transaction affect the taxable year of this affiliated group ([section 1.1502-75\(d\)\(1\)](#)).

(4) The transfer of Corp B stock by the current shareholders of Corp B to Corp A in return for Corp A stock shall qualify as a transfer of assets to a subsidiary within the meaning of [section 1.1502-75\(d\)\(2\)\(ii\) of the regulations](#). Therefore, Corp B and the wholly-owned subsidiaries will not close their taxable years as a result of the above described transactions and the continuing affiliated group of which Corp A is the common parent retains the taxable year previously used by the affiliated group of which Corp B was the common parent ([section 1.1502-75\(d\)\(2\)\(iii\)](#)).

(5) The separate return years of Corp B and the wholly-owned subsidiaries will not be treated as separate return limitation years unless so treated immediately before the acquisition ([section 1.1502-1\(f\)](#)).

(6) Any consolidated net operating loss incurred by the affiliated group of which Corp B was the common parent may be carried over to taxable years of the affiliated group of which Corp A is the common parent, provided that the consolidated net operating loss can be carried [*18] over under the principles of [section 172\(b\) of the Code](#).

(7) Any consolidated investment tax credits incurred by the affiliated group of which Corp B was the common parent may be carried over to taxable years of the affiliated group of which Corp A is the common parent provided that the investment tax credit can be carried over under the principles of [section 46\(b\) of the Code](#).

(8) Any consolidated net operating loss incurred by the Corp A affiliated group for taxable years ending after the date of acquisition may be carried back to taxable years in which Corp B was the common parent, subject to the limitations contained in [section 172\(b\) of the Code](#). Immediately after its organization, Corp A will be a member of the group of which Corp B is considered the common parent within the meaning of [section 1.1502-79\(a\)\(2\) of the regulations](#).

(9) Any unused investment credit in [section 38](#) property for taxable years when Corp A is the common parent may be carried back to years prior to the formation of Corp A for which consolidated federal income tax returns were filed by Corp B as parent, subject to the limitations contained in [section 46\(b\) of the Code](#), [sections 1.1502-3\(b\)](#) and [1.1502-79\(c\)](#) [*19] of the regulations.

(10) The transfer by Corp B to Corp A of the stock of the wholly-owned subsidiaries will not constitute a disposition by Corp B within the meaning of [section 1.1502-19\(b\) of the regulations](#), provided that the basis of the stock in the hands of Corp A is determined by reference to the basis of such stock in the hands of Corp B. Corp B will not recognize income from any excess loss accounts with respect to such stock and Corp A will succeed to any excess loss account of Corp B with respect to such stock ([sections 1.1502-19\(d\)](#) and [1.1502-19\(e\)](#)).

(11) The merger of Corp C with and into Corp E will not constitute a disposition by Corp A of the Corp C stock within the meaning of [section 1.1502-19\(b\) of the regulations](#), and Corp A will not recognize income from any excess loss account of which may exist on the date of the merger. Any excess loss account with respect to the stock of Corp C shall be applied to reduce the basis (or increase the excess loss account) of the Corp E stock held by Corp A prior to the merger ([section 1.1502-19\(e\)](#)).

No opinion is expressed regarding the tax treatment of the transaction under the provisions of any of the other sections of the Code [*20] or regulations that may also be applicable thereto or to the tax treatment of any conditions existing at the time of, or effects resulting from, the transaction that are not specifically covered by the above rulings.

This ruling is directed only to the taxpayer who requested it. [Section 6110\(j\)\(3\) of the Code](#) provides that it may not be used or cited as precedent.

It is important that a copy of this letter be attached to the federal income tax returns of the taxpayers involved for the taxable year the transaction covered by this ruling is consummated.

Pursuant to the power of attorney on file in this office, a copy of this letter is being sent to your authorized representative.

Donald E. Osteen

Chief, Reorganization Branch

Load Date: 2005-09-26

This document may not be used or cited as precedent. Section 6110(j)(3) of the Internal Revenue Code.

End of Document

PLR 9413035; 1993 PLR LEXIS 2670

US Internal Revenue Service

December 29, 1993

Reporter

1993 PLR LEXIS 2670 *; PLR 9413035

Private Letter Ruling 9413035

Subject Matter

Code Sec. 332

[*1]

Reference: Symbol: CC:DOM:CORP:Br.1-TR-31-1879-93

UI List:

UI No. 0332.00-00; Complete liquidation of subsidiaries

Core Terms

target, liquidate, stock, complete liquidation, merger, three year, liquidating distribution, plan of liquidation, acquisition, outstand, date of adoption, income tax, no assets, recipient, deficit, succeed

Text

This is in reply to a letter dated August 3, 1993, requesting rulings as to the federal income tax consequences of a proposed transaction. Additional information was submitted in letters dated December 2 and 21, 1993. The information submitted for consideration is substantially as set forth below.

Parent is a State X corporation engaged in the business of research and development, manufacture, and sale of chemicals. Parent has issued and outstanding approximately 67.6 million shares of common stock and 2.7 million shares of preferred stock. Parent's stock is listed and traded on a national exchange.

Sub is a State X holding company. Sub has outstanding 1,000 shares of common stock, all of which are issued and outstanding and held by Parent.

Target is a State Y corporation engaged primarily in the business of manufacture and sale of specialty chemicals and allied products. In 1982 Parent acquired all of the outstanding Class B voting common stock of Target, which constituted thirty percent of the outstanding Target stock. Subsequently, in 1987, Parent transferred the Class B shares [*2] to Sub.

In 1992, Sub organized Newco for the purpose of effecting an acquisition of the remaining outstanding stock of Target. The transaction was accomplished by a merger of Newco into Target. In the merger, the Target shareholders, other than Sub, exchanged their shares of Target Class A voting common stock for shares of Parent voting common and voting preferred stock.

A condition precedent to the initial acquisition of the Target Class B shares by Sub, as well as to the subsequent stock-for-stock acquisition of the remaining Target shares, was that Parent agree to maintain Target as a separate corporation and to preserve its corporate name.

About a year after the merger occurred, Parent, after reviewing its corporate structure, decided to streamline its operations by liquidating a number of its subsidiaries in order to eliminate the duplicate administrative and accounting costs. Both Target and Sub are among the subsidiaries proposed to be liquidated. It is represented that Parent first considered the possible liquidation of Target in April 1993.

In order to liquidate Target without breaching the provision in the merger agreement that requires Target to remain a separate corporation, [*3] Parent obtained in late July 1993 a waiver of the condition by the former shareholders of Target. The waiver was obtained through the agreement by Parent that it would conduct the Target business as a division using the Target name and operated in a manner that would not adversely affect the tax treatment of the prior transaction. If the Target shareholders had not waived the condition precedent, the proposed transaction would not be done by Parent.

To accomplish the proposed corporate restructuring, the following transaction has been proposed:

(i) On December 30, 1993, Parent will adopt a Plan of Liquidation of Sub. The liquidation will be accomplished through a merger of Sub into Parent in a transaction qualifying as a merger under state law.

(ii) Thereafter on December 31, 1993, Parent will adopt a Plan of Liquidation of Target under which, Target will merge into Parent in a transaction qualifying as a merger under state law. As a consequence of Target's liquidation, its foreign tax credit carryovers will be subject to both the [section 382/383](#) limitations and the separate return limitation year rules.

The following representations have been made in connection with the proposed liquidation [*4] of Sub into Parent:

(a) Parent, on the date of the adoption of the plan of liquidation, and at all times until the final liquidating distribution is completed, will be the owner of all of the outstanding stock of Sub.

(b) No shares of the stock of Sub will have been redeemed during the three years preceding the adoption of the plan of complete liquidation of Sub.

(c) All distributions from Sub to Parent pursuant to the plan of complete liquidation will be made within a single taxable year of Sub.

(d) As soon as the first liquidating distribution by merger has been made, Sub will cease to be a going concern and will conduct no further activities.

(e) Sub will retain no assets following the final liquidating distribution.

(f) Sub will not have acquired assets in any nontaxable transaction at any time except for its acquisition of Target stock in 1992, and except for acquisitions occurring more than three years prior to the adoption of the plan of liquidation.

(g) The liquidation of Sub will not be preceded or followed by the reincorporation in, or transfer or sale to, a recipient corporation (Recipient) of any of the businesses or assets of Sub if persons holding, directly or indirectly, more [*5] than 20 percent in value of the stock of Sub also hold, directly or indirectly, more than 20 percent in value of the stock in Recipient. For purposes of this representation, ownership will be determined by application of the constructive ownership rules of [section 318\(a\) of the Code](#) as modified by [section 304\(c\)\(3\)](#).

(h) No assets of Sub have been, or will be, disposed of by either Sub or Parent except for dispositions in the ordinary course of business and dispositions occurring more than three years prior to adoption of the plan of liquidation.

- (i) Prior to adoption of the liquidation plan, no assets of Sub will have been distributed in kind, transferred, or sold to Parent, except for (i) transactions occurring in the normal course of business and (ii) transactions occurring more than three years prior to the adoption of the liquidation plan.
- (j) Sub will report all earned income represented by assets that will be distributed to Parent such as receivables being reported on a cash basis, unfinished construction contracts, commissions due, etc.
- (k) The fair market value of the assets of Sub will exceed its liabilities both at the date of the adoption of the plan of complete liquidation [*6] and immediately prior to the time the first liquidating distribution is made.
- (l) There is no intercorporate debt existing between Parent and Sub and none has been cancelled, forgiven or discounted, except for transactions that occurred more than the three years prior to the date of the adoption of the liquidation plan.
- (m) Parent is not an organization that is exempt from federal income tax under *section 501* or any other provision of the Code.
- (n) All other transactions undertaken contemporaneously with, in anticipation of, in conjunction with, or in any way related to, the proposed liquidation of Sub have been fully disclosed.
- (o) No prior formal or informal plan of complete liquidation has ever been adopted by Sub.
- (p) Both Parent and Sub will file the statements referred to in section 1.381(b)-1(b)(3) of the Income Tax Regulations.

The following representations have been made in connection with the proposed liquidation of Target into Parent:

- (aa) Parent, on the date of the adoption of the plan of liquidation, and at all times until the final liquidating distribution is completed, will be the owner of all of the outstanding stock of Target.
- (bb) Since the acquisition of Target [*7] stock by Sub in 1992, no shares of the stock of Target will have been redeemed prior to the adoption of the plan of complete liquidation of Target.
- (cc) All distributions from Target to Parent pursuant to the plan of complete liquidation will be made within a single taxable year of Target.
- (dd) As soon as the first liquidating distribution has been made, Target will cease to be a going concern and will conduct no further activities.
- (ee) Target will retain no assets following the final liquidating distribution.
- (ff) Target will not have acquired assets in any nontaxable transaction at any time, except for acquisitions occurring more than three years prior to the date of adoption of the plan of liquidation.
- (gg) The liquidation of Target will not be preceded or followed by the reincorporation in, or transfer or sale to, a recipient corporation (Recipient) of any of the businesses or assets of Target, if persons holding, directly or indirectly, more than 20 percent in value of the stock of Target also hold, directly or indirectly, more than 20 percent in value of the stock in Recipient. For purposes of this representation, ownership will be determined by application of the constructive ownership [*8] rules of [section 318\(a\) of the Code](#) as modified by [section 304\(c\)\(3\)](#).
- (hh) No assets of Target have been, or will be, disposed of by either Target or Parent except for dispositions in the ordinary course of business and dispositions occurring more than three years prior to the adoption of the plan of liquidation.
- (ii) Prior to adoption of the liquidation plan, no assets of Target will have been distributed in kind, transferred, or sold to Parent, except for (i) transactions occurring in the normal course of business and (ii) transactions occurring more than three years prior to the adoption of the liquidation plan.
- (jj) Target will report all earned income represented by assets that will be distributed to Parent, such as receivables being reported on a cash basis, unfinished construction contracts, commissions due, etc.

(kk) The fair market value of the assets of Target will exceed its liabilities both at the date of the adoption of the plan of complete liquidation and immediately prior to the time the first liquidating distribution is made.

(ll) Other than advances of approximately \$Z made by Parent to Target during 1993 under a revolving credit agreement, there is no intercorporate debt [*9] existing between Parent and Target and none has been cancelled, forgiven, or discounted, except for transactions that occurred more than three years prior to the date of the adoption of the liquidation plan.

(mm) Parent is not an organization that is exempt from federal income tax under *section 501* or any other provision of the Code.

(nn) All other transactions undertaken contemporaneously with, in anticipation of, in conjunction with, or in any way related to, the proposed liquidation of Target have been fully disclosed.

(oo) No prior formal or informal plan of complete liquidation has ever been adopted by Target.

(pp) Both Parent and Target will file the statements referred to in section 1.381(b)-1(b)(3) of the regulations.

(qq) The acquisition of Target stock by Sub in 1992 was a reorganization pursuant to [section 368\(a\)\(1\)\(B\) of the Internal Revenue Code](#).

Based solely on the information submitted and representations set forth above, it is held as follows:

(1) For federal income tax purposes, the statutory merger of Sub with and into Parent pursuant to applicable state law will be treated as a distribution by Sub in complete liquidation within the meaning of *section 332 of the Code* [*10] ([section 1.332-2\(d\) of the Income Tax Regulations](#)).

(2) Provided that the requirements of *section 332(b)* are met, no gain or loss will be recognized by Parent on the receipt of the assets of Sub distributed pursuant to Sub's plan of complete liquidation (*section 332(a)*).

(3) No gain or loss will be recognized by Sub on the distribution of its assets to Parent in complete liquidation (*section 337(a)*).

(4) The basis of the assets of Sub in the hands of Parent will be the same as the basis of those assets in the hands of Sub immediately prior to its liquidation (*section 334(b)(1)*).

(5) The holding period of the assets of Sub received by Parent upon complete liquidation of Sub will include the holding period during which such assets were held by Sub ([section 1223\(2\)](#)).

(6) Pursuant to [section 381\(a\) of the Code](#) and section 1.381(a)-1 of the regulations, Parent will succeed to and take account the items of Sub described in [section 381\(c\)](#), subject to the conditions and limitations specified in [sections 381\(b\)](#) and [\(c\)](#), [382](#), [383](#), and [384](#).

(7) Pursuant to [section 381\(c\)\(2\)](#) and section 1.381(c)(2)-1 of the regulations, Parent will succeed to and take into account the earnings and profits, or [*11] deficit in earnings and profits, of Sub as of the date of the transfer. Any deficit in earnings and profits of Parent or Sub will be used to offset only earnings and profits accumulated after the date of the transfer. The amount of earnings and profits, or deficit in earnings and profits, of Sub to which Parent will succeed under [section 381](#) must be adjusted so as not to duplicate any amount reflected in earnings and profits of Parent under [section 1.1502-33\(c\)\(4\) of the Income Tax Regulations](#). ([Section 1.1502-33\(c\)\(5\)](#)).

Further, with respect to the liquidation of Target into Parent, it is held as follows:

(8) For federal income tax purposes, the statutory merger of Target with and into Parent pursuant to applicable state law will be treated as a distribution by Target in complete liquidation within the meaning of *section 332 of the Code* ([section 1.332-2\(d\) of the Income Tax Regulations](#)).

(9) Provided that the requirements of *section 332(b)* are met, no gain or loss will be recognized by Parent on the receipt of the assets of Target distributed pursuant to Target's plan of complete liquidation (*section 332(a)*).

(10) No gain or loss will be recognized by Target on the distribution of its [*12] assets to Parent in complete liquidation (*section 337(a)*).

(11) The basis of the assets of Target in the hands of Parent will be the same as the basis of those assets in the hands of Target immediately prior to its liquidation (*section 334(b)(1)*).

(12) The holding period of the assets of Target received by Parent upon complete liquidation of Target will include the holding period during which such assets were held by Target (*section 1223(2)*).

(13) Pursuant to *section 381(a) of the Code* and section 1.381(a)-1 of the regulations, Parent will succeed to and take account the items of Target described in *section 381(c)*, including the foreign tax credit carryovers of Target (*Rev. Rul. 72-452, 1972-2 C.B. 438*). These items will be subject to the conditions and limitations specified in *sections 381(b)* and *(c)*, *382*, *383*, *384*, and *904 of the Code*.

(14) Pursuant to *section 381(c)(2)* and section 1.381(c)(2)-1 of the regulations, Parent will succeed to and take into account the earnings and profits, or deficit in earnings and profits, of Sub as of the date of the transfer. Any deficit in earnings and profits of Parent or Target will be used to offset only earnings and profits accumulated after [*13] the date of the transfer. The amount of earnings and profits, or deficit in earnings and profits, of Target to which Parent will succeed under *section 381* must be adjusted so as not to duplicate any amount reflected in earnings and profits of Parent under *Section 1.1502-33(c)(4)*. (*Section 1.1502-33(c)(5)*).

(15) The liquidation of Target into Parent will be considered separate from the prior transaction by which Sub acquired 100 percent control of Target. Therefore, the proposed liquidation will have no adverse effect on the prior transaction. Compare *Rev. Rul. 79-250, 1979-2 C.B. 156* with *Rev. Rul. 72-405, 1972-2 C.B. 217*.

The rulings set forth above are predicated upon facts and representations submitted by the taxpayer and are accompanied by a penalty of perjury statement executed by an appropriate officer of Parent. This office has not verified any of the materials submitted in support of the request for ruling. Verification of the information, representations and other data provided may be required by the appropriate District Director's office upon audit of the federal income tax return filed by Parent in which the proposed transaction is reported.

No opinion is expressed about the [*14] tax treatment of the transaction under other provisions of the Code and regulations or about the tax treatment of any conditions existing at the time of, or effects from, the transaction that are not specifically covered by the above rulings.

This ruling is directed only to the taxpayer who requested it. *Section 6110(j)(3) of the Code* provides that it may not be used or cited as precedent.

A copy of this letter should be attached to the federal income tax returns of the taxpayers involved for the taxable year in which the transaction covered by this ruling letter is consummated.

Sincerely yours, Assistant Chief Counsel--Corporate, By Nelson F. Crouch, Chief, Branch 1.

Load Date: 2005-10-18

This document may not be used or cited as precedent. Section 6110(j)(3) of the Internal Revenue Code.

End of Document

PLR 9507004; 1994 PLR LEXIS 2166

US Internal Revenue Service

November 8, 1994

Reporter

1994 PLR LEXIS 2166 *; PLR 9507004

Private Letter Ruling 9507004

Subject Matter

Code Sec. 7701

[*1]

Reference: Supplementing LTR 9413035

Symbol: CC:DOM:P&SI:1-TR-31-2290-94

UI List:

UI No. 7701.02-00; Definitions; Partnerships v. associations

Core Terms

partnership, classification, dissolute, limited liability company, prior ruling

Text

This responds to your letter dated October 28, 1994, and prior correspondence, requesting a ruling on the classification of a proposed limited liability company and the effect of the formation of the proposed limited liability company on a ruling issued to P on December 29, 1993.

The prior ruling letter involved a transaction under *section 332 of the Internal Revenue Code* in which P's first-tier corporation and its subsidiary, Target, were merged into P in separate transactions. As a result of the Target merger, P acquired certain divisional assets ("Division") from Target. The prior ruling letter ruled that the merger transactions were tax-free pursuant to §332.

P is a State A corporation engaged in the business of research and development, manufacture, and sale of chemicals. S is a State A holding company and is wholly owned by P. P and S will form M, which will be organized as a limited liability company under the Delaware Limited Liability Company Act (the Act). P has represented that it will contribute Division to M, and S will contribute cash, in [*2] exchange for their interests in M.

P has represented that except for the formation and classification of M, all other facts and representations set forth in the prior ruling letter remain true, correct, and complete.

Section 18-801(4) of the Act provides that a limited liability company is dissolved upon the death, retirement, resignation, expulsion, bankruptcy, or dissolution of a member, or the occurrence of any other event that terminates the continued membership of a member in the LLC unless the business of the LLC is continued either by the consent of all the remaining members within 90 days following the occurrence of the event or pursuant to a right to continue stated in the LLC agreement.

Article 11.1 of the LLC agreement, as submitted to us, provides that M is dissolved upon the death, retirement, resignation, bankruptcy, dissolution of a Member, or the occurrence of any other event that terminates the continued membership of a member in M.

Section 18-701 of the Act provides that an LLC interest is personal property. Section 18-702(a) of the Act states that an LLC interest is assignable in whole or in part except as provided in an LLC agreement. The assignee of a member's LLC [*3] interest has no right to participate in the management of the business and affairs of an LLC except as provided in an LLC agreement and upon (1) approval of all of the members of the LLC other than the member assigning his LLC interest, or (2) compliance with any procedure provided for in the LLC agreement. Section 18-702(b) of the Act provides that unless otherwise provided in an LLC agreement, (1) an assignment entitles the assignee to share in the profits and losses, to receive the distribution or distributions, and to receive the allocation of income, gain, loss, deduction, or credit or any similar item to which the assignor was entitled, to the extent assigned, and (2) a member ceases to be a member and to have the power to exercise any rights or powers of a member upon the assignment of all of the member's LLC interest. Section 18-704(a) of the Act provides that the assignee of an LLC interest may become a member as provided in an LLC agreement and upon (1) approval of all of the members of the LLC other than the member assigning his LLC interest, or (2) compliance with any procedure provided for in the LLC agreement.

Article 9 of the LLC agreement, as submitted to us, provides [*4] that no member may sell, transfer, or assign its interest in M. Moreover, article 11.1 provides for the dissolution of M if any member sells, transfers or assigns its interest in M.

[Section 7701](#) sets forth definitions to be used in determining the classification of an organization for federal tax purposes. Organizations are classified as associations taxable as corporations, as partnerships, or as trusts. The classification of a particular organization is determined under the tests and standards set forth in [§§301.7701-2](#), [301.7701-3](#), and [301.7701-4](#) of the Procedure and Administration Regulations.

[Section 301.7701-2\(a\)\(1\)](#) sets forth six characteristics ordinarily found in a pure corporation which, taken together, distinguish it from other organizations. These are: (1) associates, (2) an objective to carry on business and divide the gains therefrom, (3) continuity of life, (4) centralization of management, (5) liability for corporate debts limited to corporate property, and (6) free transferability of interests.

[Section 301.7701-2\(a\)\(2\)](#) provides that characteristics common to partnerships and corporations are not material in attempting to distinguish between an association and a partnership. [*5] Because associates and an objective to carry on business and divide the gains therefrom are generally common to both corporations and partnerships, the classification of an organization such as M, which has these characteristics, will be classified as a partnership if it lacks at least two of the remaining characteristics. [Section 301.7701-2\(a\)\(3\)](#).

[Rev. Rul. 93-38, 1993-1 C.B. 233](#), holds that the Delaware LLC Act contains numerous provisions that can be modified by an LLC agreement. Accordingly, depending on the provisions of the LLC agreement, a Delaware LLC can assume the characteristics of either a corporation or a partnership for federal tax purposes.

[Section 301.7701-2\(b\)\(1\)](#) provides that if the death, insanity, bankruptcy, retirement, resignation, expulsion, or other event of withdrawal of a general partner of a limited partnership causes a dissolution of the partnership, continuity of life does not exist; furthermore, continuity of life does not exist notwithstanding the fact that a dissolution of the limited partnership may be avoided, upon an event of withdrawal of a general partner, by the remaining general partners agreeing to continue the partnership or by at least a majority [*6] in interest of the remaining partners agreeing to continue the partnership. See *Glensder Textile Co. v. Commissioner*, 46 B.T.A. 176 (1942) [CCH Dec. 12,249], acq., 1942-1 C.B.8.

[Section 301.7701-2\(e\)\(1\)](#) provides that an organization has the corporate characteristic of free transferability of interests if each of its members or those members owning substantially all of the interests in the organization have the power, without the

consent of other members, to substitute for themselves in the same organization a person who is not a member of the organization. For this power of substitution to exist in the corporate sense, the member must be able, without the consent of other members, to confer upon the member's substitute all the attributes of the member's interest in the organization. The characteristic of free transferability does not exist if each member can, without the consent of the other members, assign only the right to share in the profits but cannot assign the right to participate in the management of the organization.

[Rev. Rul. 93-4, 1993-1 C.B. 225](#), considers the tax classification of an unincorporated business organization, all of whose members are owned by a common parent. [*7] The ruling indicates that if the governing documents include an absolute prohibition of the transfer of an interest, or provide for dissolution upon the transfer of an interest, then the unincorporated business organization lacks free transferability of interests.

Based on the information received and the representations made, M will have associates and an objective to carry on business and divide the gains therefrom. In addition, M will lack the corporate characteristics of continuity of life and free transferability of interests. Therefore, M will be classified as a partnership for federal tax purposes.

The formation of M and its classification as a partnership will have no adverse effect upon the prior ruling letter. The rulings contained in the prior ruling letter will continue in full force and effect.

No opinion is expressed as to the tax treatment of the transactions under other provisions of the Code and regulations or about the tax treatment of any conditions existing at the time of, or effects from, the transactions that are not specifically covered by the above ruling.

This ruling is subject to the requirements set forth in [Rev. Proc. 89-12, 1989-1 C.B. 798](#), to the extent applicable. [*8] If the requirements of [Rev. Proc. 89-12](#) fail to be met at any time, this ruling will have no force or effect.

This ruling is directed only to the taxpayer who requested it. [Section 6110\(j\)\(3\)](#) provides that it may not be used or cited as precedent.

Sincerely yours, Claire E. Toth, Chief, Branch 1, Office of the Assistant Chief Counsel (Passthroughs and Special Industries)

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