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Wave Hooks | Kickstarter Share Pin it Tweet Share Email The Large Hadron Collider (LHC) has run into an unanticipated problem — it's running out of disk space. “This year the LHC is stable and reliable,” says Jorg Wenninger, head of operations at the LHC. “It is working like clockwork. We don't have much downtime.” That's actually the problem.When the collider was planned out, as Symmetry reports, scientists expected that it would be running about a third of the time. The rest of the time would be used for maintenance, refilling, rebooting, and other such logistical tasks. But that's not how it seems to work in practice. This may be the first time in history when technicians have made a bad estimate about uptime and had that result in success. The LHC is actually doing collisions about 70% of the time, more than double its expected rate.This faster collision rate lets scientists learn more about rare processes and particles like the Higgs boson, which the LHC produces about once per billion collisions. It's also filling up their data storage. “The number of hard drives that we buy and store the data on is determined years before we take the data, and it's based on the projected LHC uptime and luminosity,” said Jim Olsen, a physics professor working on the CMS project, to Symmetry. “Because the LHC is outperforming all estimates and even the best rosy scenarios, we started to run out of disk space. We had to quickly consolidate the old simulations and data to make room for the new collisions.”One reason for the huge glut of data is the number of different experiments going on at CERN. They all have to jockey for time.Part of the ATLAS/ALFA experiment apparatus at Point 1 in the LHC tunnel. (Image: Ronaldus Suykerbuyk/CERN)The most recent experiment taking up collider time is on the ATLAS hardware — and instead of focusing on the maximum number of collisions possible (this is typically referred as “luminosity”), the team is prepping for some low-speed, low-energy collisions. The type of scattering they want to study is known as “elastic scattering,” which occurs when two protons survive their encounter with one another in the detector. Instead of smashing protons together to see what happens when they collide, the goal is to bounce them off each other and measure what happens after that. The long-term goal is to better model cosmic rays and understand why cosmic rays that hit our atmosphere split into an array of secondary particles. By watching what happens to protons when they “bounce,” scientists hope to better understand why cosmic rays split into secondary particles when they strike Earth's atmosphere.One of the other goals of these upcoming experiments is to measure the probability that two protons could pass directly through each other without interacting at all. This is only possible because, like other atoms (which are mostly made up of empty space), protons are themselves composed of particles. In theory, it may be possible for one proton to pass through another. How often this happens is what we're hoping to discover.As for the low storage problem, maybe CERN should call Backblaze. They've got some pretty decent drive pods up and running...Now read: How does the Large Hadron Collider work? What is the only thing cooler than an Arduino-based satellite? One that anyone can buy access to for up to a week to run experiments using a controllable satellite with a variety of sensors. Interestingly, the satellite is seeking funding using crowdsourcing website Kickstarter.The ArduSat is currently a 1U CubeSat form factor satellite that contains a bank of Arduino Nano boards (ATmega processors), cameras, at least 25 sensors, UHF transmitter, and a flight computer. The satellite can be controlled using magnetotorpers to push against Earth's magnetic field. When the sun is visible, it's powered using solar panels; other times, it uses a backup battery.The sensor suite will include temperature, vibration and shock, gyroscopic, accelerometer, GPS, pressure, magnetometer, CO2, and visible light in the base explorer package. The pioneer package further includes access to six additional sensors including electromagnetic, infrared, ozone, spectrometer, single event upset counter, and a Geiger counter. For \$325, you can get your foot in the door with satellite access for three days to run experiments and collect data. NanoSatisfi will communicate with the satellite using GENSO, a worldwide network of amateur radio stations. GENSO will allow the team to talk to the satellite almost anywhere it is in orbit.Beyond the hardware of the ArduSat, you will be able to run code directly on the satellite itself. While they could use the satellite solely for data collection and run the code on the ground, such a solution has much less grandeur. NanoSatisfi wanted to give everyone the chance to program efficient code that will run on the low power hardware. The code will be uploaded to the team where they will bug test it on identical ground-based ArduSat hardware before sending it to the satellite. After the experiment has completed, the team will send the data back.ArduSat will be in Earth orbit for anywhere between six and eighteen months, depending on the orbit, before it burns up in the atmosphere upon reentry. NanoSatisfi, the start-up behind the ArduSat project is currently building the internals of the satellite and working on the software to allow you to upload your own code that will be run on the satellite. They have a goal of \$35,000 on Kickstarter to finish construction of the satellite. Further, the team plans to use NASA or ESA's ride along programs to get the ArduSat into space at an orbit between 400km and 600km at an inclination of 51 degrees. Alternatively, the satellite could be launched from the ISS and carried up on a resupply mission. If those options do not work out within 18 months, they have secured contingency funding for a commercial launch (600km polar sun-synchronous orbit)With 23 days left to go, the ArduSat has 202 backers and is at \$32,332 of its 35K goal — meaning it is likely that the project will indeed be funded with money to spare. Any extra proceeds will be used to add more sensors, upgrade to more powerful Arduino boards, or to build a larger 2U — or even 3U — satellite. For reference, a 1U CubeSat satellite measures 10cm x 10cm x 10cm and weighs approximately 1kg. 2U adds 10cm to the depth and one kilogram of available weight, and so on.Interested in getting your code in space? Ever wanted to drive and take photos with your own satellite? Check out the ArduSat on Kickstarter. The remains of seven service members killed in Vietnam in 1964 are carried by a horse drawn military caisson during a full honors funeral service at Arlington National Cemetery, March 21, 2014 in Arlington, Virginia. Mark Wilson/Getty Images Back in 1864, the Union was running out of space to bury Civil War casualties. Military officials decided to solve the problem by appropriating part of the Arlington, Virginia plantation that belonged to Mary Anna Custis Lee, the wife of Confederate General Robert E. Lee, and turning it into a military burial ground. Pvt. William Christman, a 21-year-old soldier from Pennsylvania who died of the measles before he got a chance to see combat, was the first to be buried there. In the years that followed, Arlington National Cemetery (ANC), which covers 624 acres (252 hectares) across the Potomac from Washington, D.C., became perhaps the nation's most hallowed ground, the final resting place for many of the nation's military heroes, from Gen. Douglas MacArthur and Pvt. Audie Murphy, the most decorated soldier of World War II, to service members killed in the recent conflicts in Iraq and Afghanistan. Also buried at Arlington are explorers, astronauts and Supreme Court Justices. The grave of President John F. Kennedy — marked with the gas-and-electric “eternal flame” that's designed to remain lighted despite wind and rain — attracted more than 16 million mourners in the first three years after his 1963 assassination. Over 7,000 Buried Each Year But the cemetery, which has become the final resting place for more than 400,000 people, is rapidly filling up, with more than 7,000 being added each year. According to a report prepared by cemetery officials for Congress in 2017, there are fewer than 70,000 spaces left, and even with a current expansion project that will add nearly 11,000 below-ground graves and 16,400 above-ground spots, the cemetery is projected to be full by the early 2040s. “ANC and those it exists to serve must therefore confront the reality that, at some point in the future, the cemetery will no longer continue to operate as it does today,” the report noted. “Most veterans from the recent wars in Iraq, Afghanistan, and the War on Terrorism will not have the option to be buried at ANC. Even our heroes who are killed in action or those who have earned the Medal of Honor will not be buried at ANC within approximately three decades due to the lack of space.” At a March 2018 hearing by the House Armed Services Committee, Karen Durham-Aguilera, executive director of the Army's National Military Cemeteries, further described the predicament. “The current veteran population is over 20 million,” she explained, according to an Army media release. “The retiree population is over 2 million. The total force, both active and reserve, is over 2 million right now. Today we have around 100,000 available burial spaces. We cannot serve that population.” Even a proposed \$274 million expansion that would add another 38 acres (15 hectares) along the cemetery's southern border would only buy an additional decade, Arlington National Cemetery superintendent Katharine Kelley told Congress at the same hearing, according to the Army's release. Should Eligibility Rules be Changed? That's why officials are now contemplating changing Arlington's eligibility requirements. Under the present rules, actively duty members of the armed services, as well as service members who've served at least one day of active duty and stayed in uniform long enough — traditionally, 20 years — to earn retirement benefits, are eligible for below-ground burial. So are their spouses and children. So are recipients of various medals and prisoners of war who died after November 30, 1993. In addition, active duty and retired members and their spouses and children, as well as reservists and National Guard members who die while on active duty or performing full-time service, are eligible for above-ground burial in the Columbarium, also known as the Niche Wall. In the 2017 report, Army officials proposed a range of possible rule changes. The most restrictive option would allow in only those who were killed in action and/or were awarded the Medal of Honor. “This option can be expected to result in delaying the closure of ANC for at least two centuries — unless our Nation experiences large scale conflict and higher numbers of Service members killed in action,” the report explained. But such a move also would exclude the vast majority of military veterans and their families, and seems likely to encounter pushback. Gerardo Avila, a deputy director of the American Legion, a veterans association, says that the issue of what to do about Arlington is still in the discussion stages, though clearly, “Arlington is reaching capacity, and something needs to be done.” In a resolution at the American Legion's 2016 convention, the organization urged Congress to step in and pass a law that would limit Arlington to service members who die on active duty, winners of the Medal of Honor and other decorations, World War II-era veterans who left the service 30 percent or more disabled, prisoners of war and career service members. John Towles, director of national security and foreign affairs for the Veterans of Foreign Wars, says in an email that the VFW is opposed to severe restrictions on eligibility for interment at Arlington. “We advocate for a solution that will ensure that the benefits that they earned through their service remain available to them,” he writes. “Because of this, the VFW cannot support changes that would take benefits away from veterans and family members who have already earned them, many of whom have already made plans to be buried at Arlington.” Another option to restricting eligibility for Arlington would be to create a non-contiguous annex on land around the Armed Forces Retirement Home campus in Washington, D.C., about 8-and-a-half miles (13.67 kilometers) away. Towles said that much of the site's 272-acre (110-hectares) expanse would be available. The United States Soldiers' and Airmen's Home National Cemetery, another burial ground operated by the Army, already is nearby. But even if it becomes more difficult to be buried at Arlington, veterans still have the option of being buried at another of the 135 national cemeteries that the National Cemetery Administration operates in 40 states and Puerto Rico. They still would be entitled to the same ceremony. Presidential memorial certificate and perpetual care of their graves that those interred at Arlington receive, Avila says. Now That's Interesting According to the Arlington National Cemetery website, though neither Robert E. Lee nor his wife ever tried to return to the former plantation, their eldest son eventually filed a lawsuit, claiming the land had been illegally seized. In an 1882 decision, the U.S. Supreme Court agreed, and Congress had to purchase the property from him for \$150,000 so that the national cemetery could continue.

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