

Terabit Network Between Polish HPC Centers Presented at SC19

November 19, 2019

DENVER, Colo., Nov. 19, 2019 — For the 15th time the Poznan Supercomputing and Networking Center and PIONIER Consortium participates in the world's largest conference and exhibition of supercomputing technologies and new generation networks – Supercomputing SC19.

At this year's exhibition, PSNC in cooperation with ADVA company presents a special, industry's first 1.2 Tb/s optical channel transmission. Built upon the ADVA FSP 3000 TeraFlex terminal, the demo showcases the power of adaptive technology to maximize efficiency in any network scenario.

The test infrastructure allows for communication at Tbit/s speed between Polish high performance computer centers (Poznan, Warsaw, Wroclaw, Krakow and Gdansk). "New solutions presented by partners allow to achieve speeds of 400G, 800G and even 1.2T not in a laboratory conditions, but in an operationally working PIONIER network. The highest throughput is to be achieved by using 3x 400GbE in the 150GHz transmission channel" says Krzysztof Kurowski, Deputy Director of PSNC. In Denver, live monitoring of the devices' status in the optical laboratory in Poznan, Poland will be possible.

This year, the main accents at booth no. 1955 concentrate around the national network PIONIER Polish Optical Internet. This network is already a part of the global scientific infrastructure, connecting directly with traffic exchange points in Europe, through which it offers Polish scientists access to European e-infrastructures PRACE, LOFAR, EUDAT, EGI as well as a direct connection to CERN. Access to data and services of these European infrastructures is also provided by PIONIER to the Eastern Europe scientific networks focused around the EaP Connect project. Using the PIONIER optical network infrastructure, together with GEANT, a dedicated connection between the University of Warsaw and Singapore is being demonstrated, which opens new opportunities for Polish science to cooperate with research and development centers in East Asia.

In addition, the booth presents the services of the PIONIER network, including the new eduMEET service, which PSNC is developing together with Partners as a service for the entire environment of the pan-European network GEANT. Based on the modern capabilities of web browsers, the service enables effective functionality of multiuser videoconferencing simultaneously with 4K quality without the use of specialized software and dedicated infrastructure.

"The solution based on the WebRTC protocol avoids many problems of existing solutions such as user accounts, special plugins or firewall locks" said Bartłomiej Idzikowski (PSNC). In Denver, it will be possible to test the service's functionalities live, connecting to European terminals, as well as the GEANT booth, also present at SC19. The booth also shows the latest application solutions for computer simulations of big challenges.

"With our QCG tools and services we support new scenarios of multi-scale calculations and problems related to determining the level of uncertainty of simulation results" explains Tomasz Piontek (PSNC). An equally important aspect is the presentation of PSNC activities related to the European Open Science Cloud, "such as the provision of computing infrastructure for applications of artificial intelligence and machine learning, integration of national repositories of science with EOSC and support for cooperation of science with industry within the EOSC Digital Innovation Hub", says Marcin Plóciennik (PSNC).


It is worth noting that this year more than a dozen European institutions and initiatives are marking their presence through the creation of a special zone "EuroZone", situating the booths close to each other and presenting joint research projects; Poznan Supercomputing and Networking Center with the PIONIER Consortium is also a part of this valuable idea.

About Poznań Supercomputing and Networking Center


The Poznań Supercomputing and Networking Center (PSNC) affiliated to the Institute of Bioorganic Chemistry of the Polish Academy of Sciences has been operating since 1993 with the mission: "Integration and development of the IT infrastructure of science." Is a leader in introducing innovative network technologies in the national scientific network POL-34/155/622, currently in the PIONIER network – Polish Optical Internet.


Source: *Poznań Supercomputing and Networking Center*


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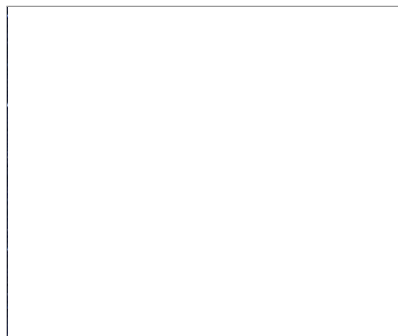
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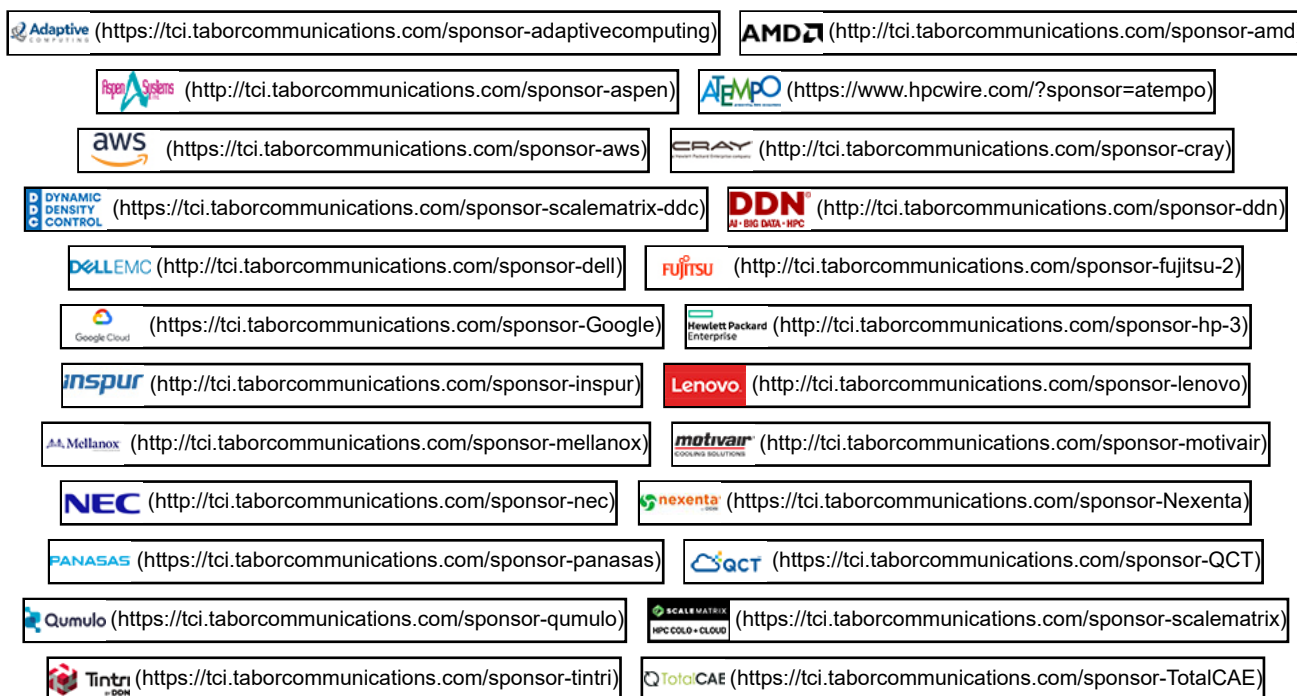
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Off The Wire

Industry Headlines



March 13, 2020

- Maxeler Technologies Develops Real Time FPGA-Based Processing for European XFEL (<https://www.hpcwire.com/off-the-wire/maxeler-technologies-develops-real-time-fpga-based-processing-for-european-xfel/>)
- NICE: How New Supercomputer for N8 Universities Will Accelerate UK Research (<https://www.hpcwire.com/off-the-wire/nice-how-new-supercomputer-for-n8-universities-will-accelerate-uk-research/>)
- BSC Researcher Creates On-Line Course on AI, ML in Supercomputing Environments (<https://www.hpcwire.com/off-the-wire/bsc-researcher-creates-on-line-course-on-ai-ml-in-supercomputing-environments/>)
- EuroHPC Summit Week 2020 Cancelled (<https://www.hpcwire.com/off-the-wire/eurohpc-summit-week-2020-cancelled/>)

March 12, 2020

- SC20 WINS Call for Participation (<https://www.hpcwire.com/off-the-wire/sc20-wins-call-for-participation/>)
- CSC Announces Applications Selected Under Supercomputer Mahti Pilot Projects (<https://www.hpcwire.com/off-the-wire/csc-announces-applications-selected-under-supercomputer-mahti-pilot-projects/>)
- Hydro66 and maincubes Sign Partnership for European Hyperscale and HPC Coverage (<https://www.hpcwire.com/off-the-wire/hydro66-and-maincubes-sign-partnership-for-european-hyperscale-and-hpc-coverage/>)
- Army Project Touts New Error Correction Method That May be Key Step Toward Quantum Computing (<https://www.hpcwire.com/off-the-wire/army-project-touts-new-error-correction-method-that-may-be-key-step-toward-quantum-computing/>)

March 11, 2020

- Micron Technology Acquires Purdue-Affiliated Startup FWDNXT (<https://www.hpcwire.com/off-the-wire/micron-technology-acquires-purdue-affiliated-startup-fwdnxt/>)
- MEEP Project: A Flexible System Supporting Next Generation European Open Source Software and Hardware (<https://www.hpcwire.com/off-the-wire/meep-project-a-flexible-system-supporting-next-generation-european-open-source-software-and-hardware/>)
- NSF Announces Quantum Algorithm Challenge, Invites Idea Submissions (<https://www.hpcwire.com/off-the-wire/nsf-announces-quantum-algorithm-challenge-invites-idea-submissions/>)
- Huawei, MIPT Establish Lab to Develop AI Tech (<https://www.hpcwire.com/off-the-wire/huawei-mipt-establish-lab-to-develop-ai-tech/>)
- IQM Creates Subsidiary in Germany to Drive Quantum Hardware-Software Co-design (<https://www.hpcwire.com/off-the-wire/iqm-creates-subsidiary-in-germany-to-drive-quantum-hardware-software-co-design/>)

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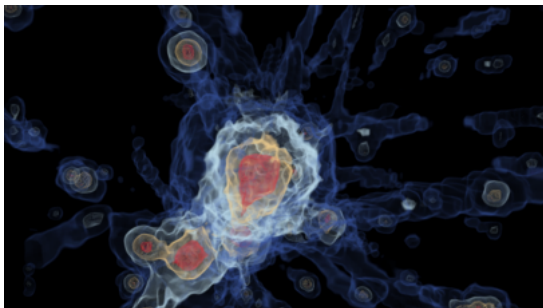
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**What's New in HPC Research: Gender Gaps, Fuel Cells, Weather Forecasting & More**

(<https://www.hpcwire.com/2020/03/12/whats-new-in-hpc-research-gender-gaps-fuel-cells-weather-forecasting-more/>)

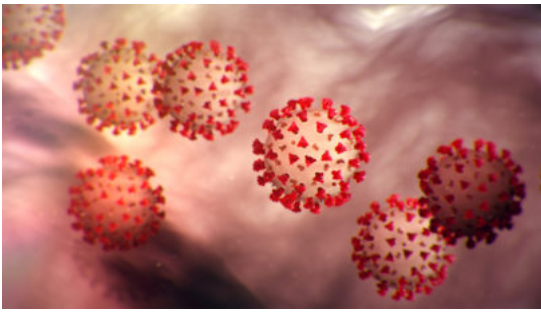
In this bimonthly feature, HPCwire highlights newly published research in the high-performance computing community and related domains. From parallel programming to [hpc-research-gender-gaps-fuel-cells-weather-forecasting-more/](https://www.hpcwire.com/2020/03/12/whats-new-in-hpc-research-gender-gaps-fuel-cells-weather-forecasting-more/)

By Oliver Peckham

🐦 ([https://twitter.com/intent/tweet?](https://twitter.com/intent/tweet?status=What%E2%80%99s%20New%20in%20HPC%20Research%3A%20Gender%20Gaps%2C%20Fuel%20Cells%2C%20Weather%20Forecasting%20new-in-hpc-research-gender-gaps-fuel-cells-weather-forecasting-more%2F)

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Global Supercomputing Is Mobilizing Against COVID-19

(<https://www.hpcwire.com/2020/03/12/global-supercomputing-is-mobilizing-against-covid-19/>)

Tech has been taking some heavy losses from the coronavirus pandemic. Global supply chains have been disrupted, virtually every major tech conference taking place o [is-mobilizing-against-covid-19/](#)

By Oliver Peckham

🐦 (<https://twitter.com/intent/tweet?status=Global%20Supercomputing%20Is%20Mobilizing%20Against%20COVID-19+https%3A%2F%2Fwww.hp>
(<https://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F12%2Fglobal-supercomputing-is-m>
19%2F&title=Global%20Supercomputing%20Is%20Mobilizing%20Against%20COVID-19&source=https%3A%2F%2Fwww.hpcwire.com/) **f** (<https://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F12%2Fglobal-supercomputing-is-mobilizing-against-covid-19%2F&title=Global%20Sup>



NEC Aurora Vector Engine Targets Data Privacy

(<https://www.hpcwire.com/2020/03/12/nec-aurora-vector-engine-targets-data-privacy/>)

In the banking, financial services and insurance industries, data governance is an eternally daunting challenge, and now data management consultancy Vaco and NEC X [vector-engine-targets-data-privacy/](#)

By Doug Black

🐦 (<https://twitter.com/intent/tweet?status=NEC%20Aurora%20Vector%20Engine%20Targets%20Data%20Privacy+https%3A%2F%2Fwww.hpcwir>
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Steve Scott Lays Out HPE-Cray Blended Product Roadmap

(<https://www.hpcwire.com/2020/03/11/steve-scott-hpe-cray-blended-product-roadmap/>)

Last week, the day before the El Capitan processor disclosures were made at HPE's new headquarters in San Jose, Steve Scott (CTO for HPC & AI at HPE, and former transition and blended roadmap, as well as his favorite topic, Cray's eighth-gen networking technology, Slingshot. [Read more...](#) (<https://www.hpcwire.com/2020/03/11/ste>

By Tiffany Trader

🐦 (<https://twitter.com/intent/tweet?status=Steve%20Scott%20Lays%20Out%20HPE-Cray%20Blended%20Product%20Roadmap+https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F11%2Fsteve-scott-hpe-cray-blende>
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Cray%20Blended%20Product%20Roadmap&source=https%3A%2F%2Fwww.hpcwire.com/) **f** (<https://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F11%2Fsteve-scott-hpe-cray-blende>
roadmap%2F&title=Steve%20Scott%20Lays%20Out%20HPE-Cray%20Blended%20Product%20Roadmap/)



(<https://www.hpcwire.com/2020/03/11/ornls-raphael-pooser-on-does-quantum-testbed-project/>)

By John Russell

<https://twitter.com/intent/tweet?status=ORNL%E2%80%99s%20Raphael%20Pooser%20on%20DoE%E2%80%99s%20Quantum%20Testbed%20Project&source=twitter> in <https://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F11%2Fornls-raphael-pooser-on-does-quantum-testbed-project%2F&title=ORNL%E2%80%99s%20Raphael%20Pooser%20on%20DoE%E2%80%99s%20Quantum%20Testbed%20Project&source=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F11%2Fornls-raphael-pooser-on-does-quantum-testbed-project%2F&title=ORNL%E2%80%99s%20Raphael%20Pooser%20on%20DoE%E2%80%99s%20Quantum%20Testbed%20Project>

AWS Solution Channel



Last year I wrote about [Amazon FSx for Lustre](https://aws.amazon.com/blogs/aws/new-amazon-fsx-for-lustre/) (<https://aws.amazon.com/blogs/aws/new-amazon-fsx-for-lustre/>) and told you how our customers can use it to create pebi IOPS (Input/Output Operations per Second) with sub-millisecond latency. [Read more...](https://www.hpcwire.com/solution_content/aws/amazon-fsx-for-lustre-update-per) (https://www.hpcwire.com/solution_content/aws/amazon-fsx-for-lustre-update-per

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Previous:

- Running Simcenter STAR-CCM+ on AWS with AWS ParallelCluster, Elastic Fabric Adapter and Amazon FSx for Lustre (https://www.hpcwire.com/solution_content/aws/amazon-fsx-for-lustre/)
- Challenging the barriers to High Performance Computing in the Cloud (https://www.hpcwire.com/solution_content/aws/manufacturing-engineering-aws/challenging-the-barriers-to-high-performance-computing-in-the-cloud/)
- Making High Performance Computing Affordable and Accessible for Small and Medium Businesses with HPC on AWS (https://www.hpcwire.com/solution_content/aws/businesses-with-hpc-on-aws/)

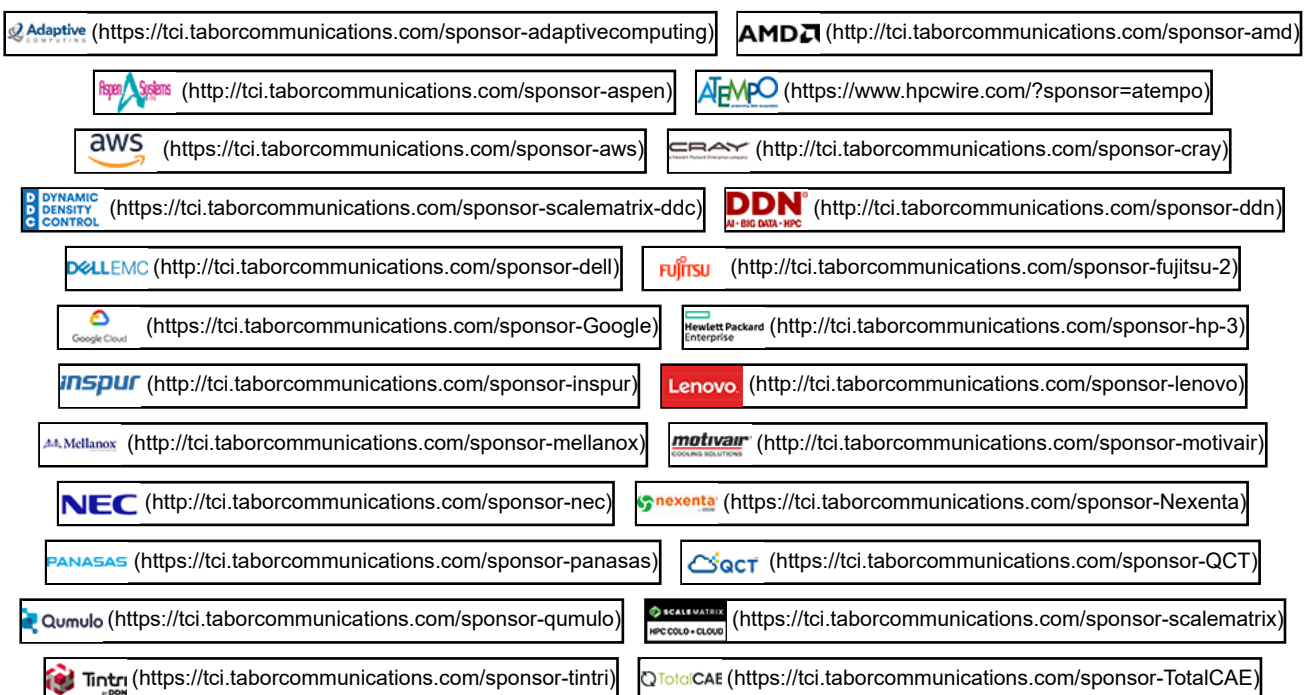


(<https://www.hpcwire.com/2020/03/11/llnl-highlights-magmas-role-in-the-nnsas-computing-arsenal/>)

By Oliver Peckham

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SC 2019 Virtual Booth Video Tour



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(https://youtu.be/HC094f_Tn5E)



(<https://youtu.be/kOB5ck7ShF4>)



(<https://youtu.be/Z-6v3U72p4o>)



NOAA Budget Request Undercuts Its HPC Announcements, Needs

(<https://www.hpcwire.com/2020/03/13/noaa-budget-request-undercuts-its-hpc-announcements-needs/>)

As governments realize the urgent need for (and utility of) powerful weather and climate supercomputing, 2020 has seen a boom in major supercomputer announcement: [needs/](#)

By Oliver Peckham

<http://twitter.com/intent/tweet?status=NOAA%20Budget%20Request%20Undercuts%20Its%20HPC%20Announcements%2C%20Needs+https%20announcements-needs%2F> [in](http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F13%2Fnoaa-budget-request-undercuts-its-hpc-announcements-needs%2F&title=NOAA%20Budget%20Request%20Undercuts%20Its%20HPC%20Announcements%2C%20Needs&source=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F13%2Fnoaa-budget-request-undercuts-its-hpc-announcements-needs%2F&title=NOAA/) (<http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F13%2Fnoaa-budget-request-undercuts-its-hpc-announcements-needs%2F&title=NOAA%20Budget%20Request%20Undercuts%20Its%20HPC%20Announcements%2C%20Needs&source=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F13%2Fnoaa-budget-request-undercuts-its-hpc-announcements-needs%2F&title=NOAA/>



Reflections from a SCinet Student Volunteer

(<https://www.hpcwire.com/2020/03/10/reflections-from-a-scinet-student-volunteer/>)

Last week, a notification on my phone said SC20 was ready for submissions and it reminded me of my awesome experience as a SCinet student volunteer at SC19 held [volunteer/](#)

By Sushma Yellapragada

🐦 (<http://twitter.com/intent/tweet?status=Reflections%20from%20a%20SCinet%20Student%20Volunteer+https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F10%2FReflections-from-a-scinet-student-volunteer%2F&title=Reflections%20from%20a%20SCinet%20Student%20Volunteer&source=https%3A%2F%2Fwww.hpcwire.com/>)
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f (<http://www.hpcwire.com/2020/03/10/reflections-from-a-scinet-student-volunteer/>)

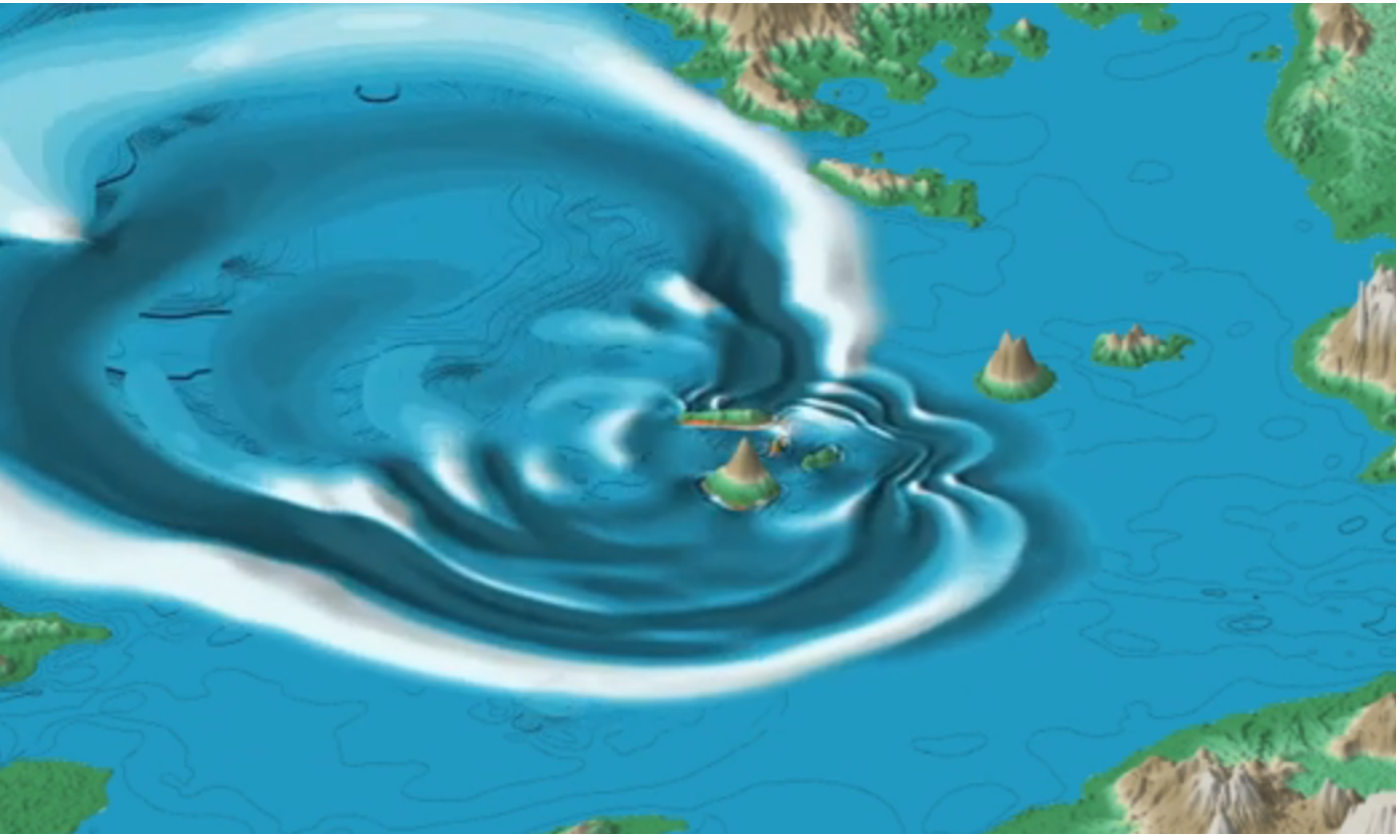


Researchers Optimize Solar Energy Research Tool for Exascale Applications

(<https://www.hpcwire.com/2020/03/09/researchers-optimize-solar-energy-research-tool-for-exascale-applications/>)

Across the world, solar energy continues to boom, comprising larger and larger shares of the countries' energy mixes as costs per megawatt-hour continue to decline. [By Oliver Peckham](#)

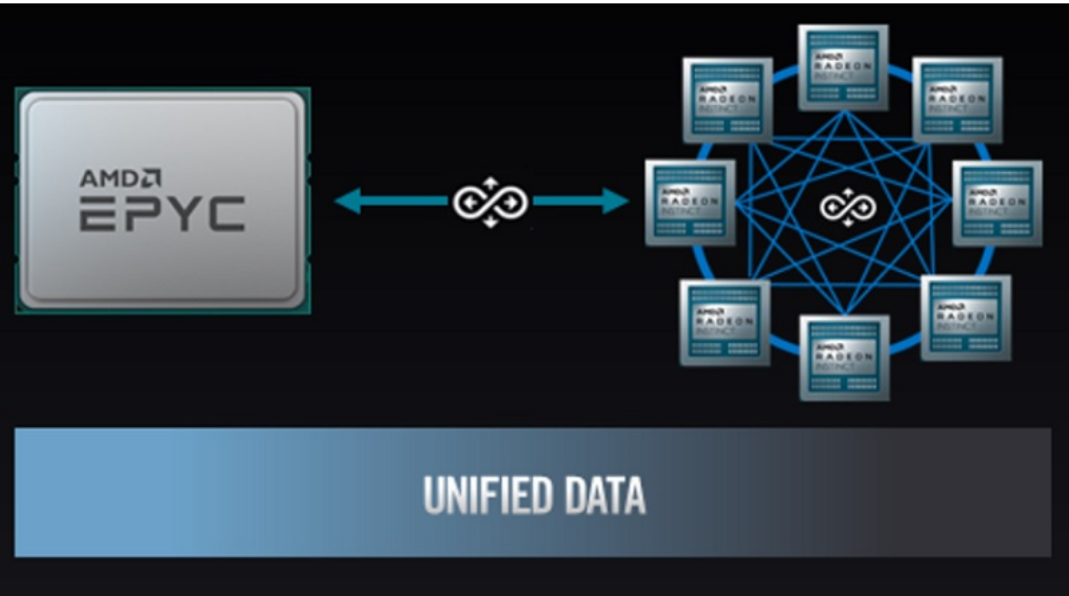
<http://twitter.com/intent/tweet?status=Researchers%20Optimize%20Solar%20Energy%20Research%20Tool%20for%20Exascale%20Applications%2F> <http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F09%2Fresearchers-optimize-solar-energy-research-tool-for-exascale-applications%2F>



Comet Helps Simulate a Rare Volcanic Tsunami
(<https://www.hpcwire.com/2020/03/07/comet-helps-simulate-a-rare-volcanic-tsunami/>)

When a volcano in or under the ocean violently erupts, the massive upheaval of earth, followed by its rapid descent, can, occasionally, produce a second major disaster: . [By Staff report](#)

<http://twitter.com/intent/tweet?status=Comet%20Helps%20Simulate%20a%20Rare%20Volcanic%20Tsunami+https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F07%2Fcomet-helps-simulate-a-rare-tsunami%2F&title=Comet%20Helps%20Simulate%20a%20Rare%20Volcanic%20Tsunami&source=https%3A%2F%2Fwww.hpcwire.com/> <http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F07%2Fcomet-helps-simulate-a-rare-tsunami%2F&title=Comet%20Helps%20Simulate%20a%20Rare%20Volcanic%20Tsunami&source=https%3A%2F%2Fwww.hpcwire.com/> <https://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F07%2Fcomet-helps-simulate-a-rare-volcanic-tsunami%2F&title=Comet%20Helps%20Simulate%20a%20Rare%20Volcanic%20Tsunami>

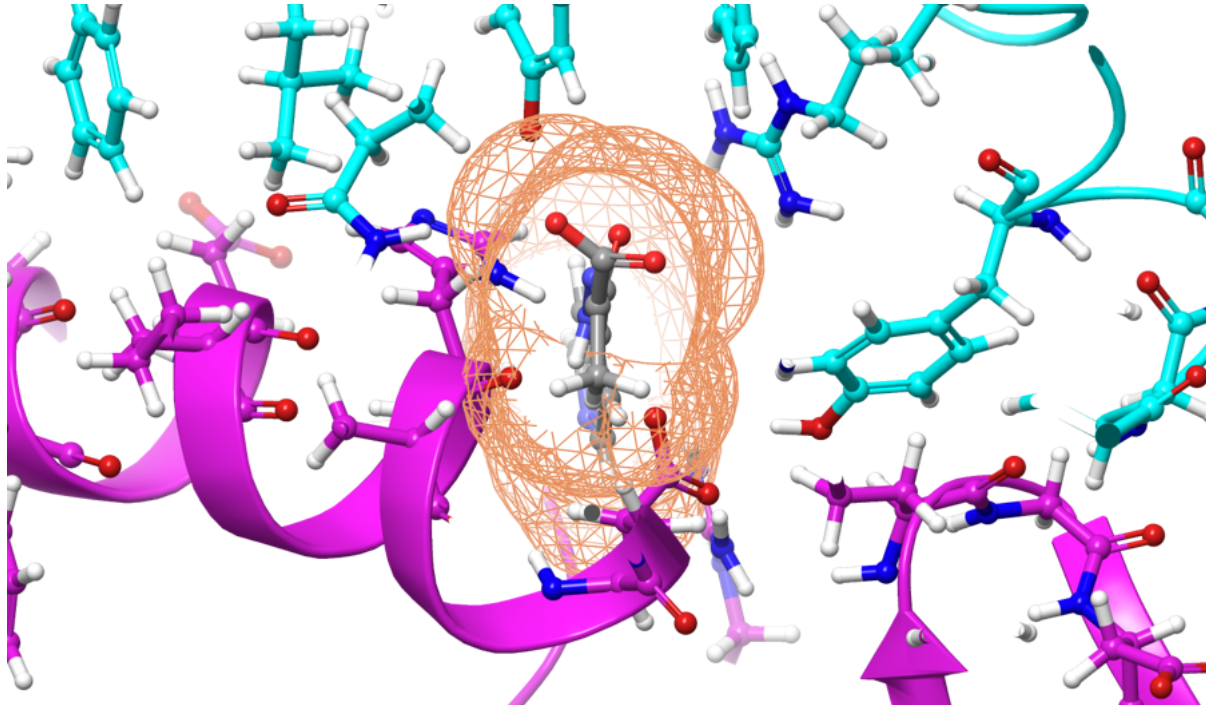


AMD's Road Ahead: 5nm Epyc, CPU-GPU Coupling, 20% CAGR
(<https://www.hpcwire.com/2020/03/06/amds-road-ahead-5nm-epyc-cpu-gpu-coupling-20-cagr/>)

Promising Wall Street a 20 percent CAGR and an aggressive CPU-GPU product roadmap, AMD delivered a confident self-portrait at its financial analyst day in Santa Clara (<https://www.hpcwire.com/2020/03/06/amds-road-ahead-5nm-epyc-cpu-gpu-coupling-20-cagr/>)

By Doug Black

🐦 (<http://twitter.com/intent/tweet?status=AMD%E2%80%99s%20Road%20Ahead%3A%205nm%20Epyc%2C%20CPU-GPU%20Coupling%2C%2020%25%20CAGR&source=twitter>) [in](http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F06%2Famds-road-ahead-5nm-epyc-cpu-gpu-coupling-20-cagr%2F&title=AMD%E2%80%99s%20Road%20Ahead%3A%205nm%20Epyc%2C%20CPU-GPU%20Coupling%2C%2020%25%20CAGR&source=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F06%2Famds-road-ahead-5nm-epyc-cpu-gpu-coupling-20-cagr%2F&title=AMD%E2%80%99s%20Road%20Ahead%3A%205nm%20Epyc%2C%20CPU-GPU%20Coupling%2C%2020%25%20CAGR) (<http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F06%2Famds-road-ahead-5nm-epyc-cpu-gpu-coupling-20-cagr%2F&title=AMD%E2%80%99s%20Road%20Ahead%3A%205nm%20Epyc%2C%20CPU-GPU%20Coupling%2C%2020%25%20CAGR&source=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F06%2Famds-road-ahead-5nm-epyc-cpu-gpu-coupling-20-cagr%2F&title=AMD%E2%80%99s%20Road%20Ahead%3A%205nm%20Epyc%2C%20CPU-GPU%20Coupling%2C%2020%25%20CAGR>)



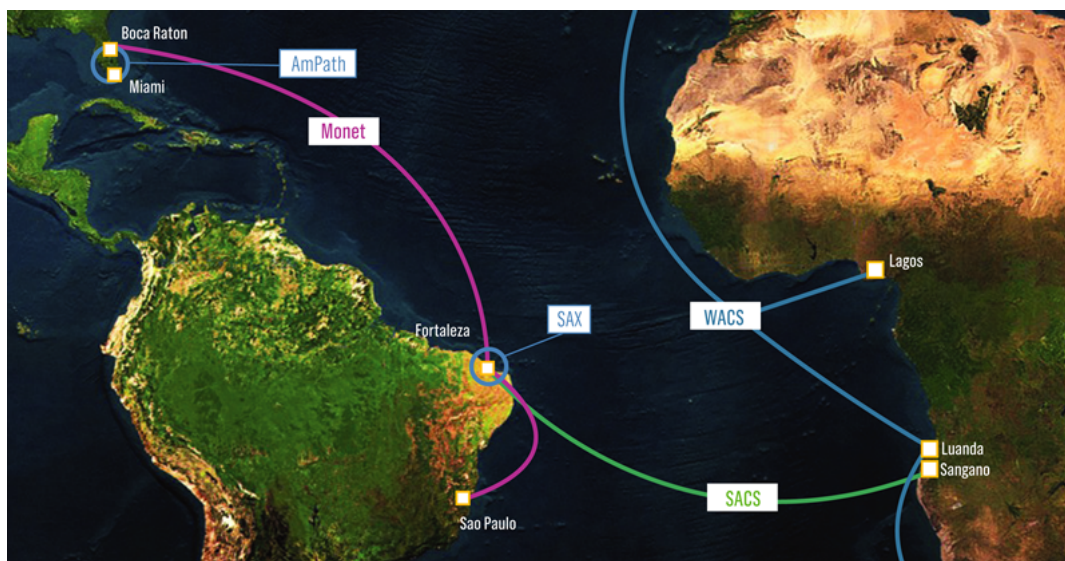
Summit Joins the Fight Against the Coronavirus

(<https://www.hpcwire.com/2020/03/06/summit-joins-the-fight-against-the-coronavirus/>)

With the coronavirus sweeping the globe, tech conferences and supply chains are being hit hard – but now, tech is hitting back. [Read more...](https://www.hpcwire.com/2020/03/06/summit-joins-the-fight-against-the-coronavirus/) (<https://www.hpcwire.com/2020/03/06/summit-joins-the-fight-against-the-coronavirus/>)

By Staff report

🐦 (<http://twitter.com/intent/tweet?status=Summit%20Joins%20the%20Fight%20Against%20the%20Coronavirus+https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F06%2Fsummit-joins-the-fight-against-the-coronavirus%2F&title=Summit%20Joins%20the%20Fight%20Against%20the%20Coronavirus&source=https%3A%2F%2Fwww.hpcwire.com/>) [in](http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F06%2Fsummit-joins-the-fight-against-the-coronavirus%2F&title=Summit%20Joins%20the%20Fight%20Against%20the%20Coronavirus&source=https%3A%2F%2Fwww.hpcwire.com/) (<http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F06%2Fsummit-joins-the-fight-against-the-coronavirus%2F&title=Summit%20Joins%20the%20Fight%20Against%20the%20Coronavirus&source=https%3A%2F%2Fwww.hpcwire.com/>) [f](https://www.facebook.com/hpcwire) (<https://www.facebook.com/hpcwire>)



AmLight ExP Activates New, High-Speed Research Links Spanning Three Continents

(<https://www.hpcwire.com/2020/03/05/amlight-exp-activates-new-high-speed-research-links-spanning-three-continents/>)

Research institutions are constantly announcing new, more powerful systems and data sources – but for researchers who aren't located near those tools, strong research [research-links-spanning-three-continents/](https://www.hpcwire.com/2020/03/05/amlight-exp-activates-new-high-speed-research-links-spanning-three-continents/)

By Oliver Peckham

An abstract digital circuit pattern with glowing orange and blue lines on a dark background. The lines form a complex, interconnected network, resembling a circuit board or data flow. The orange lines are more prominent and form a dense grid-like structure, while the blue lines are more sparse and form a secondary network. The overall effect is a sense of high-tech connectivity and data processing.

(<https://www.hpcwire.com/2020/03/05/intel-cfo-talks-7nm-5nm-futures-amds-growing-datacenter-market-share/>)

By Doug Black

A large supercomputer system, likely a Cray XE6, is shown in a data center environment. The system is composed of multiple black server racks. The front panel of the racks is covered in a large, colorful graphic. The graphic features a landscape with a blue sky, orange clouds, and a dark, rocky foreground. Overlaid on this graphic are several logos and text elements. On the left side, the 'CRAY' logo is visible. In the center, the 'U.S. DEPARTMENT OF ENERGY' logo is displayed above the 'NASA' logo, which includes the text 'National Aeronautics and Space Administration'. Below these, the 'Lawrence Livermore National Laboratory' logo is shown. At the bottom left, the 'AMD' logo is visible. On the right side of the front panel, the text 'JEL CAPITAN' is displayed in large, white, bold letters. The background of the image shows a ceiling with a grid of square light fixtures and a floor with a grid of square tiles.

(<https://www.hpcwire.com/2020/03/04/exascale-watch-el-capitan-will-use-amd-cpus-gpus-to-reach-2-exaflops/>)

By John Russell

<https://www.hpcwire.com/off-the-wire/terabit-network-between-polish-hpc-centers-presented-at-sc19/>



Hazardous Object Identifier: Supercomputer Helps to Identify Dangerous Asteroids

(<https://www.hpcwire.com/2020/03/04/supercomputer-helps-to-identify-dangerous-asteroids/>)

Asteroid defense may seem like the realm of sci-fi movies or arcade games, but for astronomers at Universiteit Leiden, it's a perfect application of high-performance computing. By Oliver Peckham

[⦿](http://twitter.com/intent/tweet?status=Hazardous%20Object%20Identifier%3A%20Supercomputer%20Helps%20to%20Identify%20Dangerous%20Asteroids%2F) (<http://twitter.com/intent/tweet?status=Hazardous%20Object%20Identifier%3A%20Supercomputer%20Helps%20to%20Identify%20Dangerous%20Asteroids%2F>) [in](http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F04%3A%2F&title=Hazardous%20Object%20Identifier%3A%20Supercomputer%20Helps%20to%20Identify%20Dangerous%20Asteroids&source=www.hpcwire.com%2F2020%2F03%2F04%3A%2F&title=Hazardous%20Object%20Identifier%3A%20Supercomputer%20Helps%20to%20Identify%20Dangerous%20Asteroids) (<http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2020%2F03%2F04%3A%2F&title=Hazardous%20Object%20Identifier%3A%20Supercomputer%20Helps%20to%20Identify%20Dangerous%20Asteroids&source=www.hpcwire.com%2F2020%2F03%2F04%3A%2F&title=Hazardous%20Object%20Identifier%3A%20Supercomputer%20Helps%20to%20Identify%20Dangerous%20Asteroids>)



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