# Julia Computing Wins RiskTech100 2018 Rising Star Award

November 17, 2017

NEW YORK, Nov. 17, 2017 — Julia Computing was selected by Chartis Research as a **RiskTech Rising Star (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/8s28KrdY8924yyh2udNMDhHQ/RynluHsC8763qkBRu8920Q763jJA)** f 2018.

The RiskTech100 Rankings are acknowledged globally as the most comprehensive and independent study of the world's major players in risk and compliance technology. Based on nine months of detailed analysis by Chartis Research, the RiskTech100 Rankings assess the market effectiveness and performance of firms in this rapidly evolving space.

Rob Stubbs, Chartis Research Head of Research, explains, "We **interviewed (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/Ss892hhojndrrbTrc892aWoiow/RynluHsC8763qkBRu8920Q763jJA)** t of risk technology buyers, vendors, consultants and systems integrators to identify the leading RiskTech firms for 2018. We know that risk analysis, risk management and regulatory requirements are increasingly complex and require solutions that demand speed, performance and ease of use. Julia Computing has been developing next-generation solutions to meet many of these requirements.

For example, **Aviva (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/j7EHaPMg3892tCxyi4qdW892TQ/RynluHsC8763qkBRu8920Q763jJA)** Britain's second-largest insurer, selected Julia to achieve compliance with the European Union's new Solvency II requirements. According to Tim Thornham, Aviva's Director of Financial Modeling Solutions, "Solvency II compliant models in Julia are 1,000x faster than our legacy system, use 93% fewer lines of code and took 1/10 the time to implement." Furthermore, the server cluster size required to run Aviva's risk model simulations fell 95% from 100 servers to 5 servers, and simpler code not only saves programming, testing and execution time and reduces mistakes, but also increases code transparency and readability for regulators, updates, maintenance, analysis and error checking.

**About Julia and Julia Computing**

**Julia (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/X7i892PGgvbCwlwmIR892NGe3Q/RynluHsC8763qkBRu8920Q763jJA** high performance open source computing language for data, analytics, algorithmic trading, machine learning, artificial intelligence, and many other domains. Julia solves the two language problem by combining the ease of use of Python and R with the speed of C++. Julia provides parallel computing capabilities out of the box and unlimited scalability with minimal effort. For example, **Julia has run at petascale (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/X5FYmH1xME9are1Y65lJWQ/RynluHsC8763qkBRu8920Q763jJA)** on 650,000 cores with 1.3 million threads to analyze over 56 terabytes of data using Cori, the world's sixth-largest supercomputer. With more than 1.2 million downloads and +161% annual growth, Julia is one of the top programming languages developed on GitHub. Julia adoption is growing rapidly in finance, insurance, machine learning, energy, robotics, genomics, aerospace, medicine and many other fields.

**Julia Computing (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/M6MFEcfwlG1YGj9smavAQw/RynluHsC8763qkBRu8920Q763jJA)** wa founded in 2015 by all the creators of Julia to develop products and provide professional services to businesses and researchers using Julia. Julia Computing offers the following products:

- **JuliaPro (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/icCpuAgc1DhQSSA7639Mlo7g/RynluHsC8763qkBRu8920Q763jJA** data science professionals and researchers to install and run Julia with more than one hundred carefully curated popular Julia packages on a laptop or desktop computer
- **JuliaRun (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/V13pPHZ3dpUYD8928lKOlmVA/RynluHsC8763qkBRu8920Q763jJA** deploying Julia at scale on dozens, hundreds or thousands of nodes in the public or private cloud, including AWS and Microsoft Azure
- **JuliaFin (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/LuHNv892glxxj892X5lQ6W7wTA/RynluHsC8763qkBRu8920Q763jJ** financial modeling, algorithmic trading and risk analysis including Bloomberg and Excel integration, Miletus for designing and executing trading strategies and advanced time-series analytics
- **JuliaDB (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/tKLvADXGqBzPUXw9sPsmTg/RynluHsC8763qkBRu8920Q763jJA)** in-database in-memory analytics and advanced time-series analysis
- **JuliaBox (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/gZ3cPNLKAJg9RpMBMr89xg/RynluHsC8763qkBRu8920Q763jJA)** students or new Julia users to experience Julia in a Jupyter notebook right from a Web browser with no download or installation required

To learn more about how Julia users deploy these products to solve problems using Julia, please visit the **Case Studies (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/X5FYmH1xME9are1Y65lJWQ/RynluHsC8763qkBRu8920Q763jJA)** sec on the **Julia Computing Website (https://newsletter.juliacomputing.com/sendy/l/2lTN9ryYlH0aXrqgRXyMgw/3iAMt763BzIkivcu3w0oR1VQ/RynluHsC8763qkBRu8920Q763jJA)**.

Julia users, partners and employers hiring Julia programmers in 2017 include Amazon, Apple, BlackRock, Capital One, Comcast, Disney, Facebook, Ford, Google, IBM, Intel, KPMG, Microsoft, NASA, Oracle, PwC, Uber, and many more.

**About Chartis Research**

**Chartis Research (https://newsletter.juliacomputing.com/sendy/l/2ITN9ryYIH0aXrqgRXyMgw/ltr8DmbDeQFI892R34z763VA3Q/RynluHsC8763qkBRu8920Q763jJA)** a leading provider of research and analysis on the global market for risk technology. It is part of Infopro Digital, which owns market-leading brands such as Risk and WatersTechnology. Chartis' goal is to support enterprises as they drive business performance through improved risk management, corporate governance and compliance, and to help clients make informed technology and business decisions by providing in-depth analysis and actionable advice on virtually all aspects of risk technology.

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*Source: Julia*



**Off The Wire** Industry Headlines

**February 19, 2018**

- Research on Blue Waters Points to Cheaper DNA Sequencing with Graphene (https://www.hpcwire.com/off-the-wire/research-blue-waters-points-cheaper-dna-sequencing-graphene/)
- Adaptive Computing Announces Release of Moab HPC Suite 9.1.2 (https://www.hpcwire.com/off-the-wire/adaptive-computing-announces-release-moab-hpc-suite-9-1-2/)

**February 16, 2018**

- Moab/NODUS Cloud Bursting 1.1.0 Released by Adaptive Computing (https://www.hpcwire.com/off-the-wire/moab-nodus-cloud-bursting-1-1-0-released-adaptive-computing/)
- TACC Panel Discusses Advanced Computing and Water Management (https://www.hpcwire.com/off-the-wire/tacc-panel-discusses-advanced-computing-water-management/)

**February 15, 2018**

- Cray Reports 2017 Full Year and Fourth Quarter Financial Results (https://www.hpcwire.com/off-the-wire/cray-reports-2017-full-year-fourth-quarter-financial-results/)
- Embrace AI, NVIDIA's Ian Buck Tells US Congressional Committee (https://www.hpcwire.com/off-the-wire/embrace-ai-nvidias-ian-buck-tells-us-congressional-committee/)
- NCSA Announces Spring 2018 Call for Illinois Allocations on Blue Waters (https://www.hpcwire.com/off-the-wire/ncsa-announces-spring-2018-call-illinois-allocations-blue-waters/)
- Technical Program Chair David Keyes Announces Changes for SC18 (https://www.hpcwire.com/off-the-wire/technical-program-chair-david-keyes-announces-changes-sc18/)

**February 14, 2018**

- DOE Gets New Office of Cybersecurity, Energy Security, and Emergency Response (https://www.hpcwire.com/off-the-wire/doe-gets-new-office-cybersecurity-energy-security-emergency-response/)
- PNNL, OHSU Create Joint Research Co-Laboratory to Advance Precision Medicine (https://www.hpcwire.com/off-the-wire/pnnl-ohsu-create-joint-research-co-laboratory-advance-precision-medicine/)
- NCSA Researchers Create Reliable Tool for Long-Term Crop Prediction in the U.S. Corn Belt (https://www.hpcwire.com/off-the-wire/ncsa-researchers-create-reliable-tool-long-term-crop-prediction-u-s-corn-belt/)
- Physics Data Processing at NERSC Dramatically Cuts Reconstruction Time (https://www.hpcwire.com/off-the-wire/physics-data-processing-nersc-dramatically-cuts-reconstruction-time/)
- OLCF-Developed Visualization Tool Offers Customization and Faster Rendering (https://www.hpcwire.com/off-the-wire/olcf-developed-visualization-tool-offers-customization-faster-rendering/)

**February 13, 2018**

Hampleton Partners Advises High Performance Computing Company CPU 24/7 In Sale To IAV (https://www.hpcwire.com/off-the-wire/hampleton-partners-advises-high-performance-computing



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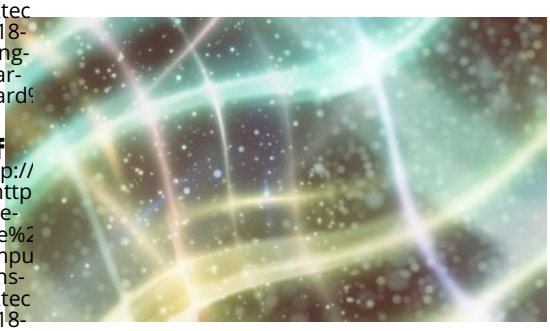
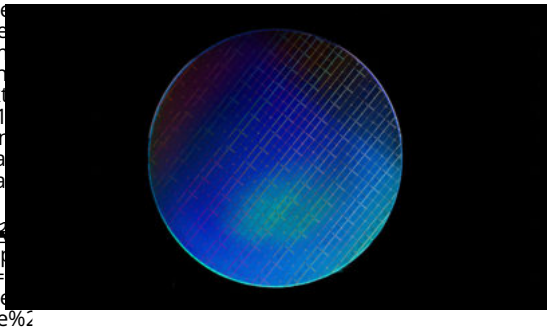


## Fluid HPC: How Extreme-Scale Computing Should Respond to Meltdown and Spectre
(https://www.hpcwire.com/2018/02/15/fluid-hpc-extreme-scale-computing-respond-meltdown-spectre/)

The Meltdown and Spectre vulnerabilities are proving difficult to fix, and initial experiments suggest security patches will cause significant performance penalties to HPC applica
(https://www.hpcwire.com/2018/02/15/fluid-hpc-extreme-scale-computing-respond-meltdown-spectre/)

By Pete Beckman

(http://twitter.com/intent/tweet?status=Fluid%20HPC%3A%20How%20Extreme-Scale%20Computing%20Should%20Respond%20to%20Meltdown%20and%20Spectre+https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F15%2Fspectre%2F) (http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F15%2Ffluid-hpc-extreme-scale-computing-respond-meltdown-spectre%2F&title=Fluid%20HPC%3A%20How%20Extreme-Scale%20Computing%20Should%20Respond%20to%20Meltdown%20and%20Spectre&source=https%3A%2F%2Fwww.hpcwire.com%2F) (http://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F15%2Ffluid-hpc-extreme-scale-computing-respond-meltdown-spectre%2F)



## Intel Touts Silicon Spin Qubits for Quantum Computing
(https://www.hpcwire.com/2018/02/14/intel-touts-silicon-spin-qubits-quantum-computing/)

Debate around what makes a good qubit and how best to manufacture them is a sprawling topic. There are many insistent voices favoring one or another approach. Referencin
(https://www.hpcwire.com/2018/02/14/intel-touts-silicon-spin-qubits-quantum-computing/)

By John Russell

(http://twitter.com/intent/tweet?status=Intel%20Touts%20Silicon%20Spin%20Qubits%20for%20Quantum%20Computing+https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F14%2Fintel-touts-silicon-spin-qubits-quantum-computing%2F) (http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F14%2Fintel-touts-silicon-spin-qubits-quantum-computing%2F&title=Intel%20Touts%20Silicon%20Spin%20Qubits%20for%20Quantum%20Computing&source=https%3A%2F%2Fwww.hpcwire.com/)

u=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F14%2Fintel-touts-silicon-spin-qubits-quantum-computing%2F&title=Intel%20Touts%20Silicon%20Spin%20Qubits%20for%20Quantum%20Computing/) (https://plus.google.com/share?url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F14%2Fintel-touts-silicon-spin-qubits-quantum-computing%2F)


## Brookhaven Ramps Up Computing for National Security Effort

(https://www.hpcwire.com/2018/02/14/brookhaven-ramps-computing-national-security-effort/)

Last week, Dan Coats, the director of Director of National Intelligence for the U.S., warned the Senate Intelligence Committee that Russia was likely to meddle in the 2018 mid-t 2016 Presidential election. Read more… (https://www.hpcwire.com/2018/02/14/brookhaven-ramps-computing-national-security-effort/)

By John Russell

(http://twitter.com/intent/tweet?status=Brookhaven%20Ramps%20Up%20Computing%20for%20National%20Security%20Effort+https%3A%2F%2Fw ramps-computing-national-security-effort%2F) (http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2018% security-effort%2F&title=Brookhaven%20Ramps%20Up%20Computing%20for%20National%20Security%20Effort&source=https%3A%2F%2Fwww.hpcw (http://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F14%2Fbrookhaven-ramps-computing-national-effort%2F&title=Brookhaven%20Ramps%20Up%20Computing%20for%20National%20Security%20Effort/) (https://plus.google.com/share?url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F14%2Fbrookhaven-ramps-computing-national-security-effort%2F)

## HPE Extreme Performance Solutions

## Safeguard Your HPC Environment with the World's Most Secure Industry Standard Servers (https://www.hpcwire.c academia/safeguard-hpc-environment-worlds-secure-industry-standard-servers/)

Today's organizations operate in an environment with ever-evolving threats, and in order to protect themselves they must continuously bolster their security strategy. Hewlett Pa challenges with the world's most secure industry standard servers powered by the latest generation of Intel® Xeon® Scalable processors (https://www.intel.com/content/www/u more… (https://www.hpcwire.com/solution_content/hpe/government-academia/safeguard-hpc-environment-worlds-secure-industry-standard-servers/)

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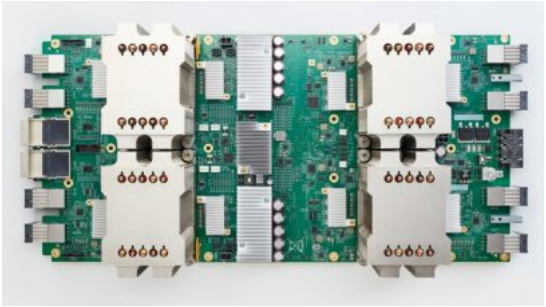
(https://www.hpcwire.com/solution_channel/hpe/)

**Previous:**

- Accelerating HPC Applications with HPE Performance Software – Message Passing Interface (https://www.hpcwire.com/solution_content/hpe/government-academia/acceler passing-interface/)
- HPE and NREL Take Steps to Create a Sustainable, Energy-Efficient Data Center with an H2 Fuel Cell (https://www.hpcwire.com/solution_content/hpe/government-academi center-h2-fuel-cell/)
- HPE Gains Industry Recognition for Game-Changing Hybrid HPC Offering (https://www.hpcwire.com/solution_content/hpe/government-academia/hpe-gains-industry-recogni



## AI Cloud Competition Heats Up: Google's TPUs, Amazon Building AI Chip

(https://www.hpcwire.com/2018/02/12/ai-cloud-competition-heats-googles-tpus-amazon-building-ai-chip/)

Competition in the white hot AI (and public cloud) market pits Google against Amazon this week, with Google offering AI hardware on its cloud platform intended to make it easi
https://www.hpcwire.com/2018/02/12/ai-cloud-competition-heats-googles-tpus-amazon-building-ai-chip/)

By Doug Black

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**Russian Nuclear Engineers Caught Cryptomining on Lab Supercomputer**
(https://www.hpcwire.com/2018/02/12/russian-nuclear-engineers-caught-cryptomining-lab-supercomputer/)

Nuclear scientists working at the All-Russian Research Institute of Experimental Physics (RFNC-VNIIEF) have been arrested for using lab supercomputing resources to mine cr
Agency. Read more… (https://www.hpcwire.com/2018/02/12/russian-nuclear-engineers-caught-cryptomining-lab-supercomputer/)

By Tiffany Trader

(http://twitter.com/intent/tweet?
status=Russian%20Nuclear%20Engineers%20Caught%20Cryptomining%20on%20Lab%20Supercomputer+https%3A%2F%2Fwww.hpcwire.com%2F20
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cryptomining-lab-supercomputer%2F) (http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2
cryptomining-lab-supercomputer%2F&title=Russian%20Nuclear%20Engineers%20Caught%20Cryptomining%20on%20Lab%20Supercomputer&source=
(http://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%2Frussian-nuclear-engineers-caught-crypt
Supercomputer%2F&title=Russian%20Nuclear%20Engineers%20Caught%20Cryptomining%20on%20Lab%20Supercomputer/) (https://plus.google.
url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%2Frussian-nuclear-engineers-caught-cryptomining-lab-supercomputer%2F)

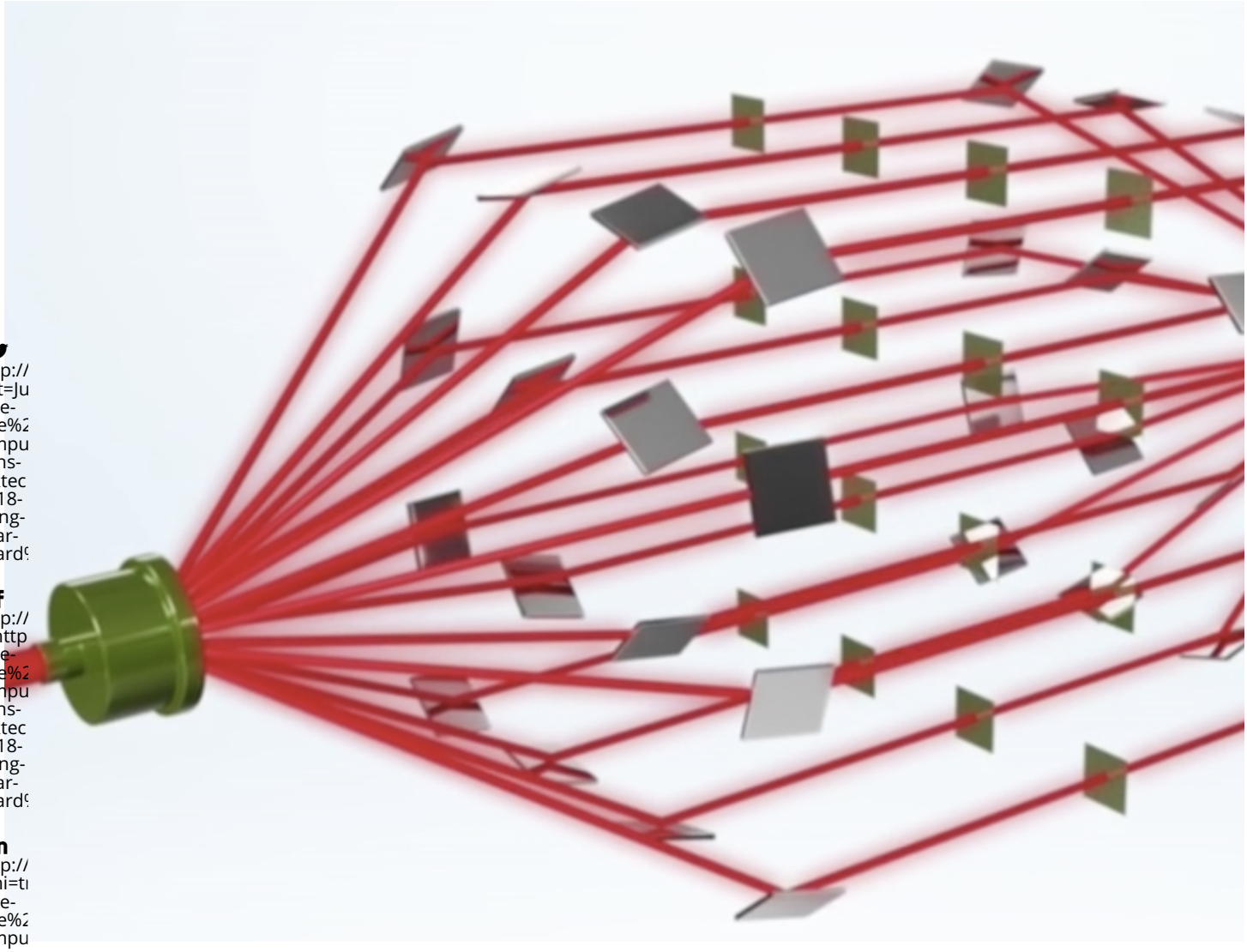

## The Food Industry's Next Journey — from Mars to Exascale

(https://www.hpcwire.com/2018/02/12/food-industrys-next-journey-mars-exascale/)

Global food producer and one of the world's leading chocolate companies Mars Inc. has a unique perspective on the impact that exascale computing will have on the food indus
Industrys-next-journey-mars-exascale/)

By Scott Gibson, Oak Ridge National Laboratory

(http://twitter.com/intent/tweet?status=The%20Food%20Industry%E2%80%99s%20Next%20Journey%20%E2%80%94%20from%20Mars%20to%20Exascale+https%3A%2F%2Fwww.next-journey-mars-exascale%2F) (http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%exascale%2F&title=The%20Food%20Industry%E2%80%99s%20Next%20Journey%20%E2%80%94%20from%20Mars%20to%20Exascale&source=http
(http://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%2Ffood-industrys-next-journey-mars-exascale%2F&title=The%20Food%20Industry%E2%80%99s%20Next%20Journey%20%E2%80%94%20from%20Mars%20to%20Exascale/) (https:
url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%2Ffood-industrys-next-journey-mars-exascale%2F)



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## Optalysys Optical Co-processor Hits Milestone with GENESYS Project

(https://www.hpcwire.com/2018/02/12/optalysys-optical-co-processor-hits-milestone-genesys-project/)

Optalysys, a U.K company seeking to commercialize optical co-processor technology, today announced completion of its Genetic Search System (GENESYS) project conducte
(http://www.earlham.ac.uk)). Read more… (https://www.hpcwire.com/2018/02/12/optalysys-optical-co-processor-hits-milestone-genesys-project/)

By John Russell

(http://twitter.com/intent/tweet?status=Optalysys%20Optical%20Co-processor%20Hits%20Milestone%20with%20GENESYS%20Project+https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%2Foptalysys-optical-c (http://www.linkedin.com/shareArticle?mini=true&url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%2Foptalysys-optical-co-processor-hits project%2F&title=Optalysys%20Optical%20Co-processor%20Hits%20Milestone%20with%20GENESYS%20Project&source=https%3A%2F%2Fwww.hpc (http://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%2Foptalysys-optical-co-processor-hits-mile project%2F&title=Optalysys%20Optical%20Co-processor%20Hits%20Milestone%20with%20GENESYS%20Project/) (https://plus.google.com/share url=https%3A%2F%2Fwww.hpcwire.com%2F2018%2F02%2F12%2Foptalysys-optical-co-processor-hits-milestone-genesys-project%2F)

## Singularity HPC Container Start-Up – Sylabs – Emerges from Stealth

(https://www.hpcwire.com/2018/02/08/startup-brings-hpc-containers-enterprise/)