NEW YORK, Nov. 17, 2017 — Julia Computing was selected by Chartis Research as a RiskTech Rising Star (https://newsletter.juliacomputing.com/sendy/l/2ITN9ryYlH0aXrqRXyMgw/8s28KrdrY924vyh2udNMDHbHQ/RynluHsC8763qkBRu8920Q763jJAs) in 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.

Julia Computing has been developing next-generation solutions to meet many of these requirements.

For example, Aviva (https://newsletter.juliacomputing.com/sendy/l/2ITN9ryYlH0aXrqRXyMgw/7EHaPmq3892tCxyi4qdW892TQ/RynluHsC8763qkBRu8920Q763jJAt), 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 95% 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://www.juliacomputing.com) is a 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://www.juliacomputing.com) 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://www.juliacomputing.com) was 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://www.juliacomputing.com) for 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://www.juliacomputing.com) for deploying Julia at scale on dozens, hundreds or thousands of nodes in the public or private cloud, including AWS and Microsoft Azure
- JuliaFin (https://www.juliacomputing.com) for 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://www.juliacomputing.com) for in-database in-memory analytics and advanced time-series analysis
- JuliaBox (https://www.juliacomputing.com) for 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://www.juliacomputing.com) section on the Julia Computing Website (https://www.juliacomputing.com)

Julia users, partners and employers hiring Julia programmers in 2017 include Amazon, Apple, BlackRock, Capital One, Comcast, Disney, Facebook, Ford, Google, IBM, KPMG, Microsoft, NASA, Oracle, PwC, Uber, and many more.
Julia Computing Wins RiskTech100 2018 Rising Star Award

About Chartis Research

Chartis Research is 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 Waters Technology. 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.

Source: Julia

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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/)

February 16, 2018

February 15, 2018
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/)
Technical Program Chair David Keyses Announces Changes for SC18 (https://www.hpcwire.com/off-the-wire/technical-program-chair-david-keyses-announces-changes-sc18/)

February 14, 2018
PNPL, OHSU Create Joint Research Co-Laboratory to Advance Precision Medicine (https://www.hpcwire.com/off-the-wire/pnpl-ohsu-create-joint-research-co-laboratory-advance-precision-medicine/)
NC State Researchers Create Reliable Tool for Long-Term Crop Prediction in the U.S. Corn Belt (https://www.hpcwire.com/off-the-wire/nc-state-researchers-create-reliable-tool-long-term-crop-prediction-u-s-corn-belt/)
OLCF-Developed Visualization Tool Offers Customization and Faster Rendering (https://www.hpcwire.com/off-the-wire/olcf-developed-visualization-tool-offers-customization-faster-rendering/)
Fluid HPC: How Extreme-Scale Computing Should Respond to Meltdown and Spectre

The Meltdown and Spectre vulnerabilities are proving difficult to fix, and initial experiments suggest security patches will cause significant performance penalties to HPC applications. Please see article for more details.

By Pete Beckman

Intel Touts Silicon Spin Qubits for 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. Referencing the latest article on the subject will help users stay current.

By John Russell
Brookhaven Ramps Up Computing for 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-term election. Read more…

By John Russell

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HPE Gains Industry Recognition for Game-Changing Hybrid HPC Offering
AI Cloud Competition Heats Up: Google’s 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 easier for developers to accelerate AI and machine learning workloads.

By Doug Black

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

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SC17 Booth Video Tours Playlist

https://www.hpcwire.com/sc17-booth-video-tours/
Russian Nuclear Engineers Caught Cryptomining on 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 cryptocurrencies.

By Tiffany Trader

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The Food Industry’s Next Journey — from Mars to 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 industry.

By Scott Gibson, Oak Ridge National Laboratory
2/20/2018

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Optalysys Optical Co-processor Hits Milestone with GENESYS Project

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

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

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