# Pasqal Makes Its Quantum Processors Native to Slurm with NVIDIA Expansion to Support Hierarchical Resources

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## HPC centers can now manage Pasqal's neutral-atom QPUs alongside CPUs and GPUs with less code to maintain, reducing integration risk

PARIS, Nov. 19, 2026 (GLOBE NEWSWIRE) -- Pasqal (Nasdaq: PSQL), a global leader in neutral-atom quantum computing, today announced an integration with the Hierarchical Resources (HRES) capability recently added to Slurm, the open-source workload manager widely used in supercomputing centers. In a latest release, NVIDIA has expanded Slurm to allow quantum processing units (QPUs) to be addressed as hierarchical resources (HRES), and Pasqal is extending its hybrid HPC-QC platform to allow HRES to manage its QPUs natively within Slurm. Unveiled at SC26, the feature in Slurm 26.11 marks an important step toward making quantum computing part of everyday high-performance computing (HPC) operations.

Supercomputing centers rely on Slurm to allocate resources across their infrastructure, but integrating quantum processors has so far required separate tools and processes.

Pasqal has been able to schedule its QPUs through Slurm since the release of Quantum Resource Management Interface (QRMI) in 2025, an open interface initially developed with IBM, the Rensselaer Polytechnic Institute (RPI) and the STFC Hartree Centre. Earlier this year, Pasqal also integrated the NVIDIA CUDA-Q platform into its QRMI implementation. Until now, running quantum workloads through Slurm required custom plugins outside its core. Leveraging Slurm's expanded HRES features, Pasqal and IBM have brought this integration closer to Slurm's native architecture, so HPC centers have less external code to maintain and fewer integration risks. Compared with Slurm's standard generic resources model, and dynamic licenses, HRES also provides a more efficient way to share constrained resources such as quantum computers across users and jobs.

In practice, Slurm can check whether a QPU is available, schedule jobs, manage access and release resources automatically. HPC users can run hybrid workflows combining CPUs, GPUs and QPUs without managing quantum sessions separately. As QRMI is a vendor-agnostic interface, the general approach works with any QRMI-supported vendor, including both Pasqal and IBM quantum processors.

To build these workflows, they can use Pasqal's open-source software, including Pulser, QoolQit and applications libraries such as its QUBO solver, or with NVIDIA CUDA-Q, in which Pasqal has also added emulation of its devices. Designed for Slurm 26.11, the integration-architecture has been successfully verified in a simulated on-premises QPU environment, and Pasqal Cloud. This builds upon Pasqal's work at CINECA, the Italian supercomputing center, where Pasqal's QPU is being integrated with Slurm, via Pasqal's open-source middleware Warden and QRMI, to connect it with their existing supercomputer Lenoardo.

"Quantum computers will not be adopted as islands. They will be adopted when they become one more resource in the infrastructure supercomputing centers already run," said Loïc Henriet, CTO of Pasqal. "By making our quantum processors easier to integrate into HPC centers through native support in Slurm, we are removing one more barrier to practical adoption and paving the way for hybrid quantum-classical computing."

"Our goal is to make quantum processors productive tools for scientists working on computing's hardest problems," said Sam Stanwyck, Director of Quantum Product at NVIDIA. "NVIDIA's expansion of Slurm, together with CUDA-Q and partners like Pasqal, brings quantum programming and resource management into the supercomputing workflows scientists already use, giving them a practical way to explore where quantum acceleration can advance their research."

For more details on the integration and its technical implementation, read Pasqal's blog post " Enabling hybrid GPU–QPU workflows with Slurm HRES and Pasqal QPUs".

**About Pasqal**
Pasqal (Nasdaq: PSQL) helps organizations tackle problems that are difficult or impossible to solve with conventional computing methods alone. Founded in 2019, with Nobel Prize–winner Alain Aspect as a co-founder, Pasqal builds and operates neutral-atom based quantum computers, delivered with a full software stack, for industry, science, and governments. Pasqal's production-ready systems are available both on-premises and through the cloud, enabling organizations to harness quantum computing without requiring in-house quantum expertise. A single hardware platform supports advanced analog quantum computing based workloads today and is designed to evolve toward fault-tolerant quantum computing in the future.

Headquartered in France with operations globally, Pasqal's quantum computing systems are used by customers across energy, financial services and advanced materials to address complex challenges. Pasqal's customers include Saudi Aramco, Crédit Agricole CIB, LG Electronics and supported by partnerships with NVIDIA (Pasqal is contributing to the NVQLink initiative) and IBM

(Pasqal is part of the IBM Quantum Network).

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These statements are based on current expectations and are not predictions of actual performance. They are provided for illustrative purposes only and must not be relied on as a guarantee, prediction or definitive statement of fact or probability. Actual events and circumstances are difficult or impossible to predict and are beyond the control of Pasqal. These statements are subject to known and unknown risks and uncertainties and assumptions regarding Pasqal’s business and the business combination, and actual results may differ materially. These risks and uncertainties include, but are not limited to: general economic, political, social and business conditions; uncertainty or changes with respect to laws and regulations; risks related to Pasqal’s indebtedness; the risk from Pasqal pursuing an emerging technology, facing significant technical challenges and the potential that it may not achieve commercialization or market acceptance; Pasqal’s reliance on strategic partners and other third parties; Pasqal’s ability to maintain, protect and defend its intellectual property rights; and other risks that will be detailed from time to time in filings with the U.S. Securities and Exchange Commission. The foregoing list of risk factors is not exhaustive. There may be additional risks that Pasqal does not know or currently believes are immaterial that could also cause actual results to differ from those contained in forward-looking statements. In addition, forward-looking statements provide Pasqal’s expectations, plans and forecasts of future events and views as of the date of this communication. While Pasqal may elect to update these forward-looking statements in the future, Pasqal specifically disclaims any obligation to do so.

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