

With this extension, the clear focus on sustained performance of real-world applications as they are currently running on the HLRS HPC systems is further underpinned.

### Tight Installation Schedule

The installation of the extension and the final consolidation of the two systems (Hornet + extension) into one homogeneous Haswell-System (Hazel Hen) followed a tight time schedule. The additional cabinets were delivered to the HLRS premises in the last week of July 2015 and were installed during the following weeks. On August 17, Hornet was powered down for one entire week and the connections between the systems were installed.

During a short period of around one week, the system integration and the system testing were executed and initial Linpack Benchmarks were run. Additionally, as carried out with system Hornet, Hazel Hen was made available to users

such as the Institute of Aerodynamics and Gas Dynamics of the RWTH Aachen University and the Institute of Applied Materials Computational Materials Science (IAM-CMS) of the Karlsruhe Institute of Technology, for so-called XXL-simulation projects. The goal of this undertaking had been to once again test the endurance of the new system under real life conditions, and the test runs were completed successfully.

On October 1, system Hazel Hen was declared fully operational and is now available for general use. With this configuration HLRS currently hosts the largest CRAY installation based on the Haswell-technology worldwide.

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## Preparatory Access to Computing and Support Resources at JSC



Starting this November, JSC is offering a new way of accessing its computing and support resources. Besides submitting a full project proposal via the regular NIC/GCS and JARA-HPC/VSR calls, users may now apply for Preparatory Access, which includes a limited amount of computing time on JURECA or JUQUEEN for porting and testing purposes as well as support by the JSC Simulation Labs.

Analogously to similar schemes previously introduced within PRACE [1], the JSC Preparatory Access aims to facilitate access to the Jülich supercomputers for researchers with computationally intensive scientific problems, but codes that still need to be made fit for HPC prior to a full proposal. Applications for Preparatory Access to JSC resources may be submitted twice a year before the 1st of November and 1st of May, respectively. These will undergo a technical evaluation by JSC

staff, who will assess the potential of the application to benefit from HPC adaptation and tuning. If approved, users receive a limited computing time budget along with expert assistance from one of the JSC SimLabs for a period of up to four months, to improve the performance of their application and prepare a full project proposal. Further details on the new JSC Preparatory Access scheme can be found at <http://www.fz-juelich.de/ias/jsc/computingtime>.

### Reference

[1] <http://www.prace-ri.eu/prace-preparatory-access/>

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