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High Performance Computing on Vector Systems 2005

Proceedings of the High Performance Computing Center Stuttgart, March 2005

In March 2005 about 40 scientists from Europe, Japan and the US came together the second time to discuss ways to achieve sustained performance on supercomputers in the range of TeraFlops. The workshop held at the High Performance Computing Center Stuttgart (HLRS) was the second of this kind. The first one had been held in May 2004. At both workshops hardware and software issues were presented and applications were discussed that have the potential to scale and achieve a very high level of sustained performance. The workshops are part of a collaboration formed to bring to life a concept that was developed in 2000 at HLRS and called the "TeraFlop Workbench". The purpose of the collaboration into which HLRS and NEC entered in 2004 was to turn this concept into a real tool for scientists and engineers. Two main goals were set out by both partners:

- To show for a variety of applications from different fields that a sustained level of performance in the range of several TeraFlops is possible.
- To show that different platforms (vector based systems, cluster systems) can be coupled to create a hybrid supercomputer system from which applications can harness an even higher level of sustained performance.

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