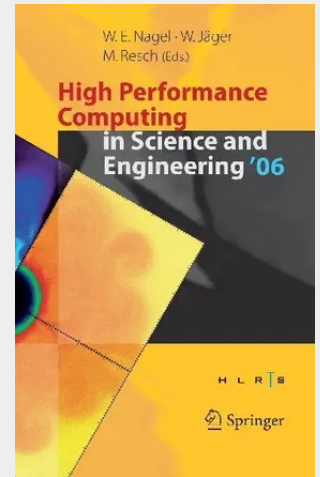


# High Performance Computing in Science and Engineering '06

Transactions of the High Performance Computing Center, Stuttgart (HLRS) 2006

The last two years have been great for high performance computing in Baden- Württemberg and beyond. In July 2005, the new building for HLRS as well as Stuttgart's new NEC supercomputer – which is still leading edge in Germany – have been inaugurated. In these days, the SSC Karlsruhe is finalizing the installation of a very large high performance system complex from HP, built from hundreds of Intel Itanium processors and more than three thousand AMD Opteron cores. Additionally, the fast network connection – with a bandwidth of 40Gbit/s and thus one of the first installations of this kind in Germany – brings the machine rooms of HLRS and SSC Karlsruhe very close together. With the investment of more than 60 Million Euro, we – as the users of such a valuable infrastructure – are not only thankful to science managers and politicians, but also to the people running these components as part of their daily business, on a 24-7 level. Since about 18 months, there are a lot of activities on all scientific, advisory, and political levels to decide if Germany will install an even larger European supercomputer, where the hardware costs alone will be around 200 Million Euro for a five year period. There are many good reasons to invest in such a program because – beyond the infrastructure – such a scientific research tool will attract the best brains to tackle the problems related to the software and methodology challenges.

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