



**High Performance Computing in Science and Engineering, Munich 2002: Transactions of the First Joint HLRB and KONWIHR Status and Result Workshop, ... 2002, Technical University of Munich, Germany**

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High-Performance Computers (HPC) have initiated a revolutionary development in research and technology since many complex and challenging problems in this area can only be solved by HPC and a network in modeling, algorithms and software. In 1998 the Deutsche Forschungsgemeinschaft (German Research Association) recommended to install an additional Federal High Performance Computer followed by the one in Stuttgart. In January 1999 the Wissenschaftsrat (German Science Council) decided that the Leibniz Rechenzentrum (Computing Center) of the Bavarian Academy of Sciences in Munich should run the second Federal High-Performance Computer in Germany. The investment cost of this Hochleistungsrechner in Bayern (HLRB) was borne by the Federal Government of Germany and the Free State of Bavaria whereas the operating cost was at the expense of the Bavarian Government only. The operation of the HLRB is organized in combination with the - Leibniz-Rechenzentrum (LRZ) of the Bavarian Academy of Sciences as the operating authority of the HLRB - Steering Committee of the HLRB - Competence Network for Technical/Scientific High-Performance Computing in Bavaria (KONWIHR). In 2000 a Hitachi SR8000-F1 was installed. It was the first Teraflops Computer in Germany and reached a peak performance of two Teraflops after an extension at the end of 2001. The goal of HLRB is to provide computer facilities necessary to solve challenging scientific and technological problems that cannot be solved on big servers but require large (storage) high-performance (very fast) computers and efficient software.

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