



**High Performance Computing in Science and
Engineering '03: Transactions of the High
Performance Computing Center Stuttgart (HLRS)
2003**

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Prof. Dr. Egon Krause Aerodynamisches Institut RWTH Aachen Wullnerstr. zw. 5 u. 7, D-52062 Aachen
Prof. Dr. Willi Jager Interdisziplinäres Zentrum für Wissenschaftliches Rechnen Universität Heidelberg 1m
Neuenheimer Feld 368, D-69120 Heidelberg Prof. Dr. Michael Resch Höchstleistungsrechenzentrum
Stuttgart Allmandring 30, D-70550 Stuttgart The High-Performance Computing Center Stuttgart (HLRS)
underwent dramatic changes during the last year. At the beginning of 2003 the Center was separated from
the Computing Center of Stuttgart University and turned into an independent central unit of Stuttgart
University. Last March the Land Baden-Württemberg shaped up her strategy of cooperation and formed of a
new Center of Competence in High-Performance Computing in Baden-Württemberg by associating HLR
Stuttgart with the SSC Karlsruhe. At the present time the HLRS is preparing its decision for a new computer
system to be planned to be operative in 2005. A safe decision is difficult to arrive at since the offers of the
vendors of high-performance computers are continuously and rather rapidly changing. At the lower end the
microprocessor based systems are attacked by clusters of PCs. The superior price-performance VI Preface
ratio makes such rather inexpensive systems attractive for a variety of applications, most of which are
latency bound. At the upper end microprocessor based systems are pressured by vector-based systems. The
latter have seen a revival nourishing on the success and political impact of the earth simulator project.

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