Zentrum für Hochleistungsrechnen

Einladung

zum

ZHR-Kolloquium

Titel: **OpenMP as a Language for High Performance Computing**

Referent: **Prof. Barbara Chapman**
University of Houston, TX, Dept. of Computer Science

Kurzfassung:

OpenMP as a Language for High Performance Computing OpenMP is a high-level programming language that has been adopted by most major hardware vendors as the language of choice for shared memory architectures. Although relatively new, it is already widely used.

However, OpenMP does not contain explicit support for ccNUMA architectures, and its suitability as a paradigm for many current large-scale platforms has been questioned. Worse, it is not a suitable paradigm for programming clusters of computers, or pure distributed memory architectures. Given the need for portability if this paradigm is to be successful, several efforts have begun that aim to design and implement language extensions for OpenMP that enable a programmer to obtain good performance on all

of these architectures.

In this presentation, we discuss the range of applicability of OpenMP and report on efforts to extend its usefulness as well as improve its performance on currently interesting machines.

Ort:　　　　**Hö rsaalzentrum (HSZ), Hö rsaal 403**
Zeit:　　　　**Montag, den 07. Januar 2002, 13.00 Uhr**

gez. Prof. Dr. W.E. Nagel