

Das Zentrum für Hochleistungsrechnen - Parallelverarbeitung im Spannungsfeld von Forschung und Dienstleistung

W.E. Nagel

Abstract

The interdisciplinary Center for High Performance Computing (ZHR) was founded in June 1997. As a Central Scientific Unit of Dresden University of Technology, it acts as a service provider to give advice and support to users from the university departments, the surrounding research laboratories, and all industrial partners using high performance computing. Additionally, based on the experience in optimizing large applications the ZHR defines its own research profile to fulfill the role as a competence center of Computational Science and Engineering. The focus is on new algorithms and computational methods as well as on software tools to support parallelization and optimization.

Apart from training, education classes, problem analysis and general advice, extended support for cooperative problem solutions that systematically integrate the available interdisciplinary know-how can be provided under special cooperative arrangements. By broadening and extending this service and cooperation offer to commercial, industrial, and especially SME partners, the ZHR will also help to develop and promote new methods in high performance computing with the aim of technical and technological innovation in this important field.