

Einladung zur Ringvorlesung „Simulationswissenschaften“

Mittwoch, 1. Oktober 2014, Raum 0.101, Institut für Informatik, Universität Göttingen, 15:30 Uhr

Prof. Dr. Ulrich Rüde
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spricht über das Thema

Towards Exascale Simulation Technology

Inhalt des Vortrags:

Exploiting heterogeneous and hierarchically structured extreme scale computer systems to their full capability requires innovation on many levels: New algorithmic paradigms must address unprecedented levels of concurrency and must support asynchronous execution. A new performance-oriented software design technology must be developed to support efficiency, scalability, portability, and flexibility. I will report on our recent work in the waLBerla and HHG frameworks for simulating complex particulate flows based on the lattice Boltzmann method (LBM) and for solving Finite Element Systems using Multigrid Methods. Scalability and performance results for up to a trillion degrees of freedom as well as experiments on accelerator based systems will be presented.

Gäste sind herzlich willkommen.

Der Vortrag findet in folgendem Gebäude statt:

Raum 0.101
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