

数学与系统科学研究院

计算数学所学术报告

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报告题目:

Scientific Computing On GPU

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上午 10: 00-11: 00

报告地点: **科技综合楼三层 311**

计算数学所报告厅

Abstract:

It has been a mainstream technology in HPC to use GPU to speed up scientific and engineering applications. In this talk, after a brief introduction to GPU computing, we will give a survey on the applications of GPU in scientific computing. Four major areas will be discussed: 1. Numerical linear algebra. 2. Numerical solution of PDEs by the finite difference/volume method. 3. Particle methods. 4. Data analysis. In each area, we will point out some of the key techniques in porting the algorithm to GPU and use realistic commercial or open source codes to illustrate the speedup.

欢迎大家参加!