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:

Algebraic Multigrid on GPU

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Abstract:

In this talk, we will talk about our work on speeding Algebraic Multigrid (AMG) and preconditioners. solvers **AMG** solvers implement two preconditioners, classic AMG and Smoothed Aggregation AMG. Several smoothers, such as damped Jacobi, weighted Jacobi, block Jacobi, block Gauss-Seidel, Gauss-Seidel, domain decomposition and approximate based smoothers, inverse implemented/developed. All these have GPU version and CPU version. And our GPU AMG solvers and preconditioners are up to 10 times faster than CPU AMG.

欢迎大家参加!