Carol Woodward

Recent Advances for Anderson Acceleration in Parallel

Center for Applied Scientific Computing
Lawrence Livermore National Laboratory
P O Box 808
L-561
Livermore
CA 94551
woodward6@llnl.gov
John Loffeld

Anderson acceleration has demonstrated significant benefits in accelerating fixed point solutions in a number of applications. The method, however, adds new synchronization points that can slow its use in parallel. In this presentation, we will examine the parallel communication requirements of Anderson acceleration and discuss its performance for parallel application. In addition, we will discuss use of Anderson acceleration on GPUs.

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