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Parallel Multistep Block Method for Solving Large Systems of ODEs

Abstract:

The parallel solution of large systems of ordinary differential equations (ODEs) has received interest from many researchers due to the possibility of using parallel computing platforms. In this presentation, we will introduce the multistep block method that will compute the numerical solution of large systems of ODEs. The parallelism across the system and across the method will be discussed for the parallelization of the block method.