

The Parallel Implementation of the Hyperbolic Equation

(Poster)

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In this paper we represent a parallel implementation, using MPI-programming of two schemes for solving the hyperbolic equation. Using an MPI programming we have implemented this problem in an asynchronous cluster with 9 processors, analysing the time of execution (= time of communication + time of computation) and the speed-up. Another topic we have discussed is how these methods behave using OpenMP programming. The numerical tests are performed to find the dimensions when the parallelization is more effective and at which platform.

Key words: simultaneous methods, root, polynomial, parallel implementation, MPI, OpenMP.

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