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Parallel Multigrid Waveform Relaxation for Parabolic ...

Parallel Implementation of Standard Parabolic Marching Schemes, Stefan Vandewalle, Pages 135-182.

Computational Complexity of Multigrid Waveform Relaxation, Stefan Vandewalle, Pages 183-194, Case

Studies, Stefan Vandewalle, Pages 195-224, Concluding Remarks and Suggestions for Future Research, Stefan

Vandewalle, Pages 225-230, Back Matter, Pages 231-256, PDF, About this book, Keywords

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coarsening, that will allow many nonlinear parabolic problems to be solved with parallel scaling behavior comparable to the corresponding linear problem. Key words, multigrid, multigrid-in-time, parabolic problems, nonlinear, reduction-based multi-

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ANALYSIS OF A NEW SPACE-TIME PARALLEL MULTIGRID ALGORITHM FOR PARABOLIC

PROBLEMS MARTIN J. GANDER AND MARTIN NEUMULLER Abstract. We present and analyze a new

space-time parallel multigrid method for parabolic equations. The method is based on arbitrarily high order discontinuous Galerkin discretizations in time and a nite element discretization in space. The key ingredient of

Time-parallel iterative methods for parabolic PDES ...
Vandewalle, S. Time-parallel iterative methods for parabolic PDES: Multigrid waveform relaxation and time-parallel multigrid. United States: N. p., 1994. Web, United States: N. p., 1994. Web.

(PDF) Parabolic multi-grid methods - ResearchGate
Timeparallel multigrid methods for parabolic problems have also a long history starting from the first introduction in [21]. Later, parallel multigrid waveform relaxation methods for parabolic I

Numerical experiments with nonlinear multigrid waveform ...

Multigrid waveform relaxation Application of the numerical method of lines to a parabolic partial differential equation leads to a large system of ordinary differential equations, $dt \, u_h + L_h u_h = F_h$. (3.1) In the above formula we used h to denote the spatial mesh size; u_h is the vector of unknown functions that approximate the solution at the grid points; L_h is the discretized, possibly

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Applied Numerical Mathematics 8 (1991) 149-161 149
North-Holland Numerical experiments with nonlinear multigrid waveform relaxation on a parallel processor Stefan Vandewalle * and Robert Piessens Katholieke Universiteit Leuven, Department

An Algorithm with Polylog Parallel Complexity for Solving ...

This multigrid waveform relaxation algorithm has been tested extensively [31]-[33], and has been shown to work well for a variety of parabolic problems, both linear and nonlinear, on both serial and parallel computers. In particular it has been shown that the use of multigrid V-cycles leads in many cases to a rapidly converging iteration with typical convergence factors in the range of 0.06

Parallel Multigrid Waveform Relaxation for Parabolic ...

Waveform Relaxation Methods for Initial Boundary Value Problems, Vandewalle, Dr. Stefan, Pages 49-82

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Waveform relaxation methods are iterative methods to solve time dependent problems. They start with an initial guess of the solution over the entire time interval of interest, and produce iteratively better and better approximations to the solution over the entire

Fourier Mode Analysis of the Multigrid Waveform Relaxation ...

Two such algorithms for solving parabolic partial differential equations have appeared recently in the literature: the multigrid waveform relaxation method, and the time-parallel multigrid method. The multigrid waveform relaxation method, also called multigrid dynamic iteration method, was developed by Lubich and Ostermann in [13]. It is based on waveform relaxation, a continuous-in-time