

Gamr: A Free, Parallel, Adaptive Tectonics and Mantle Convection Code

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June 14, 2010

Abstract

Computational Infrastructure for Geodynamics (CIG) has begun development of Gamr: a new community code for tectonics and mantle convection. The principle new improvement of Gamr over existing community codes such as CitcomS and Gale is the use of parallel adaptive mesh refinement. This will allow Gamr to better resolve fine features such as faults, plate boundaries, and mantle plumes. I will discuss the current status of Gamr and outline future milestones.