

Integrated Predictive Simulation System for Earthquake and Tsunami Disaster (4): Framework for Development of Parallel Codes

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In this poster, framework for development of parallel codes in the project of Integrated Predictive Simulation System for Earthquake and Tsunami Disaster will be described. This is a 5- year project from FY.2005, supported by Japan Science and Technology Agency (JST), and is the first integrate simulation system for prediction of earthquake and tsunami disasters, which covers entire multi-scale processes such as plate deformation, dynamic fault rupture, seismic wave/tsunami propagation, and oscillation of buildings. Various types of results of development in computational and computer sciences, such as scalable linear solvers using multicores and GPUs, parallel visualization, parallel coupling tools and parallel mesh adaptation tools will be presented.