

ERICA Product Details

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Title:

FY 2010 US OMB PMM DOE SC OASCR Software Metric SC GG 3.1/2.5.2: Improve Computational Science Capabilities

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The report presents the problems and work conducted to satisfy the Department of Energy's (DOE) Office of Advanced Scientific Computing Research (ASCR) program's FY10 software effectiveness measure, part of its annual Office of Management and Budget (OMB) program goal entered into DOE's Performance Measure Manager (PMM) system at the end of the FY, for the following science and engineering applications: TDSLDA

	(a time-dependent model of superfluid many-body quantum systems), POP (the parallel ocean program for high resolution climate modeling), LS3DF (linearly scaling three-dimensional fragment method for ab initio density functional theory calculations), and Denovo (a general radiation transport application for nuclear and radiological sciences).
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