



Supermicro Purpose-Built HPC Servers



Supercomputing Systems

Isidoro Gitler, Jaime Klapp



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Supercomputers play a significant and growing role in a variety of areas important to the nation They are used to address challenging science and technology problems In recent years however progress in supercomputing in the United States has slowed The development of the Earth Simulator supercomputer by Japan that the United States could lose its competitive advantage and more importantly the national competence needed to achieve national goals In the wake of this development the Department of Energy asked the NRC to assess the state of U S supercomputing capabilities and relevant R D Subsequently the Senate directed DOE in S Rpt 107 220 to ask the NRC to evaluate the Advanced Simulation and Computing program of the National Nuclear Security Administration at DOE in light of the development of the Earth Simulator This report provides an assessment of the current status of supercomputing in the United States including a review of current demand and technology infrastructure and institutions and international activities The report also presents a number of recommendations to enable the United States to meet current and future needs for capability supercomputers **High Performance Computer Applications** Isidoro Gitler, Jaime Klapp, 2016-04-07 This book constitutes the refereed proceedings of the 6th International Conference on Supercomputing ISUM 2015 held in Mexico Mexico in March 2015 The 38 revised full papers presented were carefully reviewed and selected from 102 submissions The papers are organized in topical sections on perspectives in supercomputer infrastructure and applications parallel algorithms and optimization HPC applications and simulations NASA Technical Memorandum , 1963 Sustained Simulation Performance 2013 Michael M. Resch, Wolfgang Bez, Erich Focht, Hiroaki Kobayashi, Yevgeniya Kovalenko, 2013-09-06 This book presents the state of the art in high performance computing and simulation on modern supercomputer architectures It covers trends in hardware and software development in general and specifically the future of high performance systems and heterogeneous architectures The application contributions cover computational fluid dynamics material science medical applications and climate research Innovative fields like coupled multi physics or multi scale simulations are presented All papers were chosen from presentations given at the 16th Workshop on Sustained Simulation Performance held in December 2012 at HLRS University of Stuttgart Germany and the 17th Workshop on Sustained Simulation Performance at Tohoku University in March 2013

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