Vetter

Contemporary High Performance Computing

From Petascale toward Exascale, Volume 3

Contemporary High Performance Computing: From Petascale toward Exascale, Volume 3 focuses on the ecosystems surrounding the world’s leading centers for high performance computing (HPC). It covers many of the important factors involved in each ecosystem: computer architectures, software, applications, facilities, and sponsors. This third volume will be a continuation of the two previous volumes, and will include other HPC ecosystems using the same chapter outline: description of a flagship system, major application workloads, facilities, and sponsors. Features: - Describes many prominent, international systems in HPC from 2015 through 2017 including each system’s hardware and software architecture - Covers facilities for each system including power and cooling - Presents application workloads for each site - Discusses historic and projected trends in technology and applications - Includes contributions from leading experts Designed for researchers and students in high performance computing, computational science, and related areas, this book provides a valuable guide to the state-of-the art research, trends, and resources in the world of HPC.

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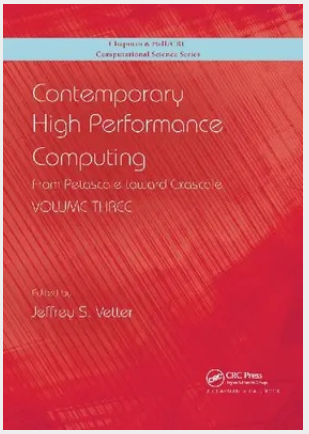

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