



Optimizing HPC Applications with Intel Cluster Tools 2014: Hunting Petaflops

By Alexander Supalov, Andrey Semin, Christopher Dahnken

Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2014. Paperback. Book Condition: New. 2014 ed.. 229 x 147 mm. Language: English . Brand New Book. Optimizing HPC Applications with Intel(R) Cluster Tools takes the reader on a tour of the fast-growing area of high performance computing and the optimization of hybrid programs. These programs typically combine distributed memory and shared memory programming models and use the Message Passing Interface (MPI) and OpenMP for multi-threading to achieve the ultimate goal of high performance at low power consumption on enterprise-class workstations and compute clusters. The book focuses on optimization for clusters consisting of the Intel(R) Xeon processor, but the optimization methodologies also apply to the Intel(R) Xeon Phi(t) coprocessor and heterogeneous clusters mixing both architectures. Besides the tutorial and reference content, the authors address and refute many myths and misconceptions surrounding the topic. The text is augmented and enriched by descriptions of real-life situations.



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