

Building a high-performance computing (HPC) system and running an application on the system.

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Abstract: In the context of increasing data volume and demanding computational requirements, the necessity of a high-performance computing (HPC) system becomes evident. This topic focuses on building an HPC system with the goal of optimizing performance to run complex applications. The research methodology includes theoretical analysis of HPC architecture and experimental deployment on a specific system. Through this, the topic aims to make a significant contribution to the field of scientific and engineering computing, expanding the ability to solve large-scale real-world problems.

Keywords: HPC, High Performance Computing, HPC Architecture, Complex Application Applications, Computational Science