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A supercomputer is a computer with a high level of performance as compared to a general-purpose computer. The performance of a supercomputer is commonly measured in floating-point operations per second instead of million instructions per second (MIPS). Since 2017, there are supercomputers which can perform over a hundred quadrillion FLOPS (100 petaFLOPS, or PFLOPS).

Supercomputer - Wikipedia

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The book presents the state-of-the-art in high performance computing and simulation on modern supercomputer architectures. It covers trends in high performance application software development in general and specifically for parallel vector architectures.

High performance computing on vector systems 2006 ...

It covers trends in high performance application software development in general and specifically for parallel vector architectures. The contributions cover among others the field of computational fluid dynamics, physics, chemistry, and meteorology. Innovative application fields like reactive flow simulations and nano technology are presented.

High performance computing on vector systems 2006 ...

High performance computing (HPC) is one of the most essential tools fueling the advancement of science. By leveraging GPU-powered parallel processing across multiple compute nodes, it can run advanced, large-scale application programs efficiently, reliably, and quickly.

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Vector processors can greatly improve performance on certain workloads, notably numerical simulation and similar tasks. Vector machines appeared in the early 1970s and dominated supercomputer design through the 1970s into the 1990s, notably the various Cray platforms.

Vector processor - Wikipedia

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