

# HPC Acronyms/Shorthand

## Units

Acronym - Meaning	Acronym - Meaning	Acronym - Meaning	Acronym - Meaning
Kb - Kilobit (1000 bits)	Mb - Megabit (1000 Kb)	Gb - Gigabit (1000 Mb)	Tb - Terabit (1000 Gb)
KB - Kilobyte (1000 bytes)	MB - Megabyte (1000 KB)	GB - Gigabyte (1000 MB)	TB - Terabyte (1000 GB)
KiB - Kibibyte (1024 bytes)	MiB - Mebibyte (1024 KiB)	GiB - Gibibyte (1024 MiB)	TiB - Tebibyte (1024 GiB)

Notes: 1 byte = 8 bits. Use of the above units shorthand is inconsistent. Networking devices tend to refer to Kb/Mb/Gb/Tb, storage devices tend to refer to KB/MB/GB/TB, while system administrators tend to refer to KiB/MiB/GiB/TiB. The IEC binary prefixes (e.g., KiB) were first introduced in 2007.

## Acronyms

Acronym	Association	Expanded
CIFS	Storage	Common Inter File System ( <a href="http://en.wikipedia.org/wiki/Cifs">http://en.wikipedia.org/wiki/Cifs</a> )
GbE	Networking	Gigabit Ethernet ( <a href="http://en.wikipedia.org/wiki/GbE">http://en.wikipedia.org/wiki/GbE</a> )
HPC		High Performance Computing
IP	Networking	Internet Protocol ( <a href="http://en.wikipedia.org/wiki/Internet_protocol">http://en.wikipedia.org/wiki/Internet_protocol</a> )
MPI	HPC	Message Passing Interface ( <a href="http://en.wikipedia.org/wiki/Message_Passing_Interface">http://en.wikipedia.org/wiki/Message_Passing_Interface</a> )
NAS	Storage	Network Attached Storage ( <a href="http://en.wikipedia.org/wiki/Network-attached_storage">http://en.wikipedia.org/wiki/Network-attached_storage</a> )
NFS	Storage	Network File System ( <a href="http://en.wikipedia.org/wiki/Network_File_System">http://en.wikipedia.org/wiki/Network_File_System</a> )
TCP	Networking	Transmission Control Protocol ( <a href="http://en.wikipedia.org/wiki/Transmission_Control_Protocol">http://en.wikipedia.org/wiki/Transmission_Control_Protocol</a> )
VM	Systems	Virtual Machine ( <a href="http://en.wikipedia.org/wiki/Virtual_machine">http://en.wikipedia.org/wiki/Virtual_machine</a> )