

TotalView 2020 Supported Platforms

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Versions

Interpret version information in the following ways:

- **Compilers:** Versions are given as a range, from the earliest supported version to the latest supported version, which is usually the current version. All versions within the range are supported. Version information first lists compilers that support both C/C++ and Fortran, followed by compilers specific to one language or the other.
- **Operating Systems:** Specific supported versions are listed. If a whole number is given, all minor versions of that whole number are supported.
- **MPI Products:** No versions are given. The rule is: if a product version can be compiled with a supported compiler, that product version is supported.

Support Notes

- **X Windows:** X Windows is required on all platforms to run the UI.
- **OpenMP:** Most languages now support OpenMP. If your language supports it, and if your OpenMP code compiles successfully with one of our supported compilers, then your OpenMP is considered supported by TotalView.

Version information first lists compilers that support both C/C++ and Fortran, followed by compilers specific to one language or the other.

- **CUDA debugging:** Supported on Linux x86-64, Linux PowerLE/OpenPOWER, and Linux-arm64 operating systems. Current support is for the 8, 9, and 10 tool chains. **Notes:** 1) There is limited support for the Dynamic Parallelism feature; 2) On the NVIDIA Jetson Xavier Developer Kit, you must debug applications as root. For more information, please see the CUDA chapters in the *TotalView User Guide*.
- **ReplayEngine for reverse debugging:** Supported on Linux x86 and x86-64 operating systems. On other platforms, ReplayEngine buttons and menu selections are grayed out in the UI. For more information, please see the document *Reverse Debugging with ReplayEngine*.

Replay Engine supports the IP transport mechanism on most MPI systems. It supports communication over Infiniband using either the IBverbs or the QLogic PSM transport layers on some systems. Please see the section "Using ReplayEngine with Infiniband MPIs" in the *Classic TotalView User Guide* for details.

- **Python debugging:** Python 2.7 and 3.5 and above debugging is supported on Linux x86-64 operating systems. For more information, please see "Debugging Python" in the *TotalView User Guide*.

Platform Support

Platforms	Operating Systems	Compilers	MPI Products
Linux x86-64	Red Hat Enterprise/CentOS Linux 6, 7, and 8 Red Hat Fedora 28, 29, and 30 Ubuntu 16.04 and 18.04 SuSE Linux Enterprise Server 12 and 15	Intel Parallel Studio XE 17-20 GNU 4.3 - 9.1 PGI Workstation 11.2 - 18.10 Oracle Studio 12 C and C++: Clang 3 - 7 Fortran: Absoft Pro 17 - 19	Argonne MPICH Argonne MPICH2 GNU SLURM HPE MPI 2 HPE MPT Intel MPI Open MPI OSU MVAPICH OSU MVAPICH2 Bullx MPI IBM Platform MPI Berkeley UPC (32-bit only)
Linux PowerLE / OpenPOWER	Ubuntu 14.04 - 16.04 Red Hat Enterprise Linux 7	GNU 4.3 - 9.1	Open MPI
Linux-arm64	Ubuntu 16.04 CentOS 7	GNU 4.3 - 9.1 Arm Compiler 19.0 C and C++: Clang 3 - 7	Open MPI
Apple Macintosh	Mac OS X Sierra (10.12) Mac OS X High Sierra (10.13) Mac OS X Mojave (10.14)	Intel Parallel Studio XE 17-20 GNU 4.3 - 9.1 C/C++: Apple Clang 4.1 - 6.0 Fortran: Absoft Pro 17 - 19	Argonne MPICH Argonne MPICH2 Open MPI