

## 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 NextGen 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 for HPC.  
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 operating systems. Current support is for the 8.0, 9.0 - 9.2, and 10.0 tool chains. There is limited support for the Dynamic Parallelism feature. For more information please see the CUDA chapters in the *TotalView for HPC NextGen 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 *TotalView for HPC Users Guide* for details.

# Platform Support

Platforms	Operating Systems	Compilers	MPI Products
Linux x86-64	Red Hat Enterprise/CentOS Linux 6 and 7 Red Hat Fedora 25, 26, and 27 Ubuntu 14.04, 15.04, 15.10, and 16.04 Open SuSE 12 and 13 SuSE Linux Enterprise Server 12	Intel Parallel Studio XE 15-18 GNU 4.3 - 7.1 PGI Workstation 11.2 - 16.1 Oracle Studio 12 <b>C and C++:</b> Clang 3 - 5 <b>Fortran:</b> Absoft Pro 16 - 18	Argonne MPICH Argonne MPICH2 GNU SLURM HPE MPI 2 Intel MPI Open MPI OSU MVAPICH OSU MVAPICH2 SGI MPT (64-bit only) SGI Propack (64-bit only) Bullx MPI IBM Platform MPI Berkeley UPC (32-bit only)
Linux PowerLE / OpenPOWER	Ubuntu 14.04 - 16.04 Red Hat Enterprise Linux 7	GNU 4.8 - 7.1	Open MPI
ARM64	Ubuntu 16.04 CentOS 7	GNU 7.1 <b>C and C++:</b> Clang 3 - 5	Open MPI
Apple Macintosh	Mac OS X Sierra (10.12) Mac OS X High Sierra (10.13)	Intel Parallel Studio XE 15-18 GNU 4.3 - 7.1 <b>C/C++:</b> Apple Clang 4.1 - 6.0 <b>Fortran:</b> Absoft Pro 16 - 18	Argonne MPICH Argonne MPICH2 Open MPI