



Technical Bulletin

No. 480 ♦ March 19, 2013

TOSS 2.1 Release Notes

Beginning this month, Livermore Computing will install the latest version of the TOSS operating system software stack on its production computing clusters. TOSS 2.1 is based on Red Hat Enterprise Linux version 6.4 (RHEL 6.4). Because this version is a minor upgrade of TOSS, recompiling between TOSS 2.0 and TOSS 2.1 should not be required.

Highlights from this release include:

- Red Hat Developer Toolset 1.1, which provides GNU compilers 4.7.2 (accessed via “module load dts/1.1”) and offers current versions of the GNU Compiler Collection (GCC), GNU Debugger (GDB), and other development, debugging, and profiling tools. Documentation for the Red Hat Developer Toolset is available online:
https://access.redhat.com/knowledge/docs/Red_Hat_Developer_Toolset/
- Stack Trace Analysis Tool (STAT) 2.0.0 in /opt
- Scalable Checkpoint Restart (SCR) 1.1 in /opt
- CUDA 5.0 (NVIDIA’s parallel computing platform and programming model) in /opt
- Intel compiler 13.0 in /opt
- Various bug fixes and security updates from Red Hat and LLNL

Notes: Versions of the GNU Boost library prior to version 1.51.0 (released August 20, 2012) are known to have some incompatibilities with g++ 4.4.7 (the new default GNU compiler version). If you receive compile errors in Boost with g++ following the TOSS update, we recommend updating to Boost 1.51.0 or later.

Makefiles generated on TOSS 2.0 systems may need to be regenerated or updated to locate header files for gcc 4.4.7. A symbolic link was created to temporarily allow TOSS 2.0 Makefiles to work on the TOSS 2.1 systems, but we recommend Makefiles always be used on the OS level at which they were generated. Makefiles generated on TOSS 2.1 systems will not run under TOSS 2.0.

Red Hat Enterprise Linux v6.4 Release Notes are available online:

https://access.redhat.com/knowledge/docs/en-US/Red_Hat_Enterprise_Linux/6/html/6.4_Release_Notes/

**If you have any questions, please contact the LC Hotline—
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