

Pre-RFP Change Log

May 22, 2013–January 3, 2014

- 01/03 - Corrected baseline FOMs for MCB (they've been lowered). Updated KMI (Hash), Nekbone, and XSBench summary files. Updated XSBench source. Updated version of results spreadsheet provided.
- 01/02 - CLOMP source updated to support weak scaling to a large number of threads, allow measurement of OpenMP performance in the presence of MPI, and simplify generation of requested results spreadsheet data.
- 12/20 - NEKbone source update includes threaded OpenMP version. Figures-of-merit for Nekbone updated in the baseline FOM spreadsheet.
- 12/16 - Updated summary files for QMCPACK and HACC to clarify problem sizes to run. Updated CAM-SE (homme) tarball so it will run 2-day simulation by default for proper validation.
- 12/04 - Non-required source updates to QMCPACK (code cleanup) and miniFE (threaded setup phase; does not affect FOM). For both of these, vendors need not rerun with updated versions. Summary table added to top of FOM.
- 11/15 - Added summary file and updated run rules for miniFE. Clarified CORAL problem for UMT in summary file and included run script.
- 11/12 - Updated the calculation of the FOM in QBOX to account for different numbers of atoms (weak scaling). Source, summary file, and baseline QBOX FOM's were updated
- 11/08 - Updated FOM.
- 10/29 - Added summary file for LCALS and updated LCALS source with simpler benchmarking options and corrected licensing info. (Note: LCALS, previously referred to as "Livermore Loops," is otherwise unchanged). Updated LULESH to fix a minor OpenMP timing bug.
- 10/28 - Updated miniMADNESS and baseline FOM for Nekbone.
- 10/25 - Updated FOM and highlighted baseline for QMCPACK.
- 10/22 - New QBOX performance data.
- 10/09 - Updated QMCPACK summary file.
- 10/07 - New source for LSMS (bugfix). New summary files for AMG2013, HACC, and CAM-SE. Verification data for CAM-SE (single node). Updated FOM table for CAM-SE, added iteration count data for AMG.
- 09/25 - Updated CORAL benchmarking process document.
- 09/13 - New FOM table with updated values for HACC, Nekbone, MCB, QBOX, and newly added values for QMCPack. Revised summary files for BigSort and AMG2013.
- 09/05 - Updated SNAP source file.

08/28 - New versions of BigSort, LSMS, and QBOX. New summary files for BigSort and LSMS. Updated FOMs for HACC and QBOX.

08/08 - Updated Draft Technical Requirements (v5.3.1).

08/06 - Added data-centric benchmarks (Graph500, Hash, Integer Sort, and SPECint2006). Updated FOM table with new results. Updates to Nekbone source and summary file.

07/24 - Bug fixes and minor improvements to LSMS, MCB, XSBench, and SNAP source distributions; updated summary files for MCB, QBox, UMT, AMG, and SNAP; new version of FOM baselines, with fix to UMT tasks/node, and new data for CAM-SE and LSMS.

07/15 - Update to MCB to fix string buffer overflow bug; added HACC-IO summary file; updated FOM table with SNAP data.

07/12 - Added initial table of FOM, weights, and scaling data.

07/11 - Added summary files for IOR, Pynamic, and CLOMP. Updated Pynamic source distribution.

07/02 - Added link to updated presentation given at vendor meeting. Updated MPI benchmarks, HACC, and HACCmk distributions. Added summary files for HACCmk, SNAP, and MADNESS. Updated summary files for HACC and MPI Benchmarks.

06/28 - Added Livermore Loops. Updated QBOX and CAM-SE distributions.

06/25 - Updated Nekbone, LSMS, CAM-SE, AMG2013, MCB source files; added UMTmk source file and benchmark summary files.

06/18 - Added STREAM, STRIDE, FTQ.

06/13 - Added UMT2013. (Note that this is a different version than is used in the TN8 procurement.)

06/05 - MPI_Benchmark replaced "timer" function with more portable "MPI_Wtime." AMG README file updated to include details on how to run the problem. (See also docs/amg.readme.)

06/03 - Updated HACC source to v1.1; updated BGQCM.c and BGQStep16.c with generic versions of BlueGene/Q specific functions. Added datasets for NAMD. Larger sets (0.7 and 6.8 GB) available upon request (coral-apps@lists.llnl.gov).

05/29 - Added IOR, AMGmk.

05/23 - Added CAM-SE, miniFE, SNAP.

05/22 - Changed e-mail link; added NAMD; updated table data for AMGmk and UMTmk.