



SPEC® OMPG2012 Result

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Cray

(Test Sponsor: Indiana University)

SPECompG_peak2012 = Not Run

Cray XC30 (Intel Xeon E5-2697 v2)

SPECompG_base2012 = 6.60

OMP2012 license:3440A

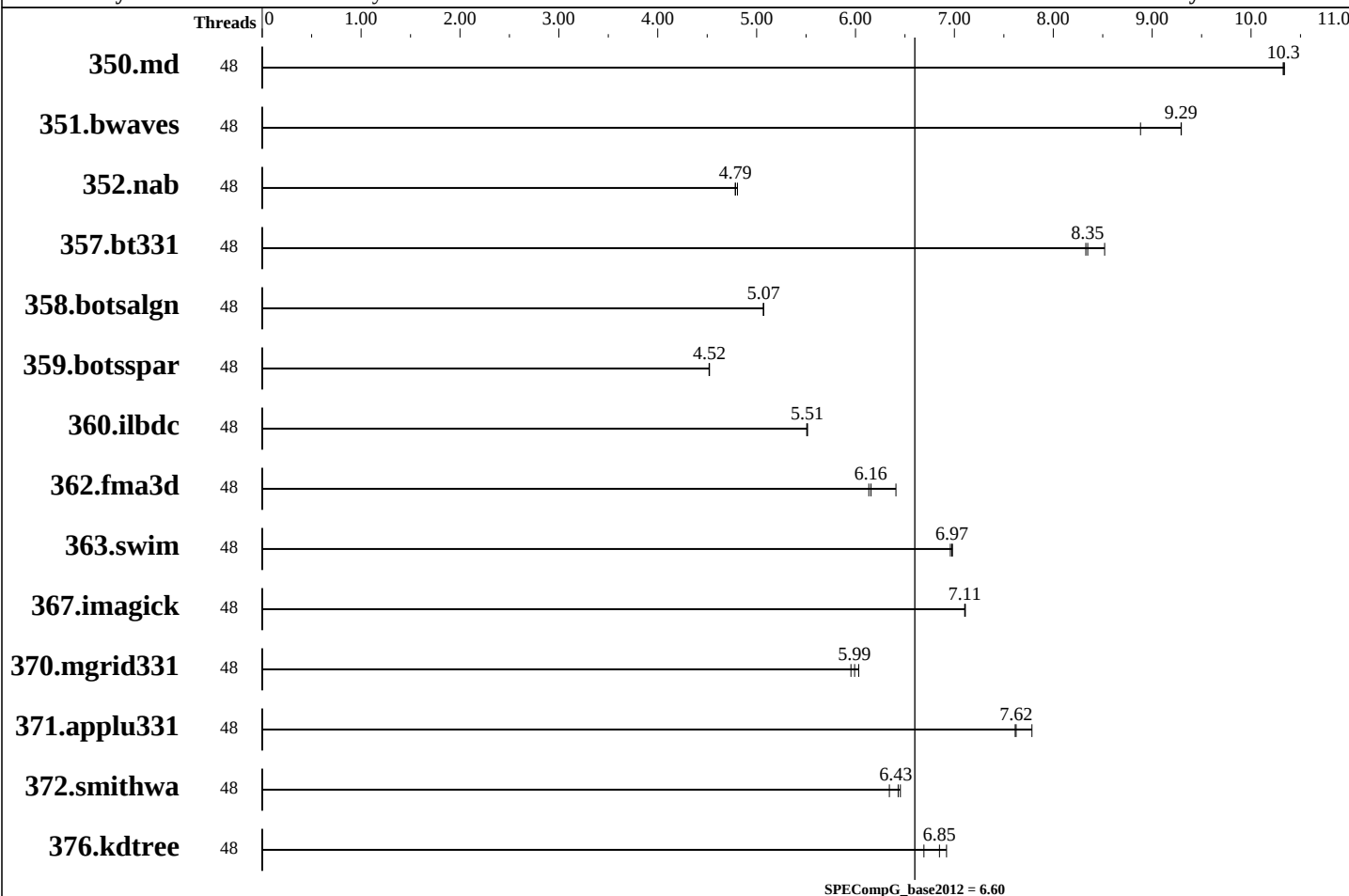
Test sponsor: Indiana University

Tested by: Indiana University

Test date: Jul-2017

Hardware Availability: Apr-2013

Software Availability: Dec-2016



Hardware

CPU Name: Intel Xeon E5-2697 v2
CPU Characteristics: Intel Turbo Boost Technology off, Hyper-Threading on
CPU MHz: 2700
CPU MHz Maximum: 2700
FPU: Integrated
CPU(s) enabled: 24 cores, 2 chips, 12 cores/chip, 2 threads/core
CPU(s) orderable: 1-2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core
L3 Cache: 30 MB I+D on chip per chip
Other Cache: None
Memory: 64 GB (8 x 8 GB 2Rx4 PC3-14900R-13, ECC)
Disk Subsystem: None
Other Hardware: None
Base Threads Run: 48

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Software

Operating System: SUSE Linux Enterprise Server 11 SP3 (x86_64), Cray Linux Environment 5.2 3.0.101-0.46.1_1.0502.8871-cray_ari_c
Compiler: C/C++/Fortran: Version 8.5.5 of Cray Programming Environment
Auto Parallel: No
File System: Lustre 2.5 (DDN SFA12K) over QDR InfiniBand
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: None



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Minimum Peak Threads: --

Maximum Peak Threads: --

Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
350.md	48	448	10.3	448	10.3	448	10.3							
351.bwaves	48	487	9.30	510	8.88	487	9.29							
352.nab	48	813	4.78	813	4.79	809	4.81							
357.bt331	48	556	8.52	568	8.35	569	8.33							
358.botsalgn	48	858	5.07	858	5.07	858	5.07							
359.botsspar	48	1161	4.52	1161	4.52	1162	4.52							
360.ilbdc	48	646	5.51	646	5.51	646	5.51							
362.fma3d	48	617	6.16	619	6.13	593	6.41							
363.swim	48	649	6.98	651	6.96	650	6.97							
367.imagick	48	989	7.11	990	7.10	989	7.11							
370.mgrid331	48	742	5.95	733	6.03	738	5.99							
371.aplu331	48	778	7.78	795	7.62	796	7.61							
372.smithwa	48	833	6.43	831	6.45	845	6.34							
376.kdtree	48	657	6.85	650	6.92	672	6.69							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Platform Notes

Sysinfo program

/N/dc2/projects/hpc/lijunj/spec/omp2012-1.1-run/bigred2plus-cray3/Docs/sysinfo
Revision 563 of 2016-06-10 (097295389cf6073d8c3b03fa376740a5)
running on nid00540 Wed Jul 26 03:01:14 2017

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:
<http://www.spec.org/omp2012/Docs/config.html#sysinfo>

From /proc/cpuinfo

model name : Intel(R) Xeon(R) CPU E5-2697 v2 @ 2.70GHz
2 "physical id"s (chips)
48 "processors"

cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)

cpu cores : 12
siblings : 24
physical 0: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 1: cores 0 1 2 3 4 5 8 9 10 11 12 13
cache size : 30720 KB

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Platform Notes (Continued)

From /proc/meminfo

MemTotal: 66072376 kB

HugePages_Total: 0

Hugepagesize: 2048 kB

/usr/bin/lsb_release -d

SUSE Linux Enterprise Server 11 (x86_64)

From /etc/*release* /etc/*version*

SuSE-release:

SUSE Linux Enterprise Server 11 (x86_64)

VERSION = 11

PATCHLEVEL = 3

uname -a:

Linux nid00540 3.0.101-0.46.1_1.0502.8871-cray_ari_c #1 SMP Mon Jun 26

15:18:40 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux

SPEC is set to:

/N/dc2/projects/hpc/lijunj/spec/omp2012-1.1-run/bigred2plus-cray3

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
10.10.0.171@o2ib:10.10.0.172@o2ib:/dc2	lustre	5.3P	4.9P	323T	94%	/N/dc2

Cannot run dmidecode; consider saying 'chmod +s /usr/sbin/dmidecode'

(End of data from sysinfo program)

General Notes

Environment Variables:

ENV_OMP_THREAD_STACK_SIZE=1073741824

ulimit -s unlimited

Base Compiler Invocation

C benchmarks:

cc

C++ benchmarks:

CC

Fortran benchmarks:

ftn



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Base Portability Flags

350.md: -f free
357.bt331: -hpic -hdynamic
363.swim: -hpic -hdynamic
367.imagick: -hc99

The flags file that was used to format this result can be browsed at

<http://www.spec.org/omp2012/flags/cray.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/omp2012/flags/cray.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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