



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 = 5.60

OMP2012 license:3440A

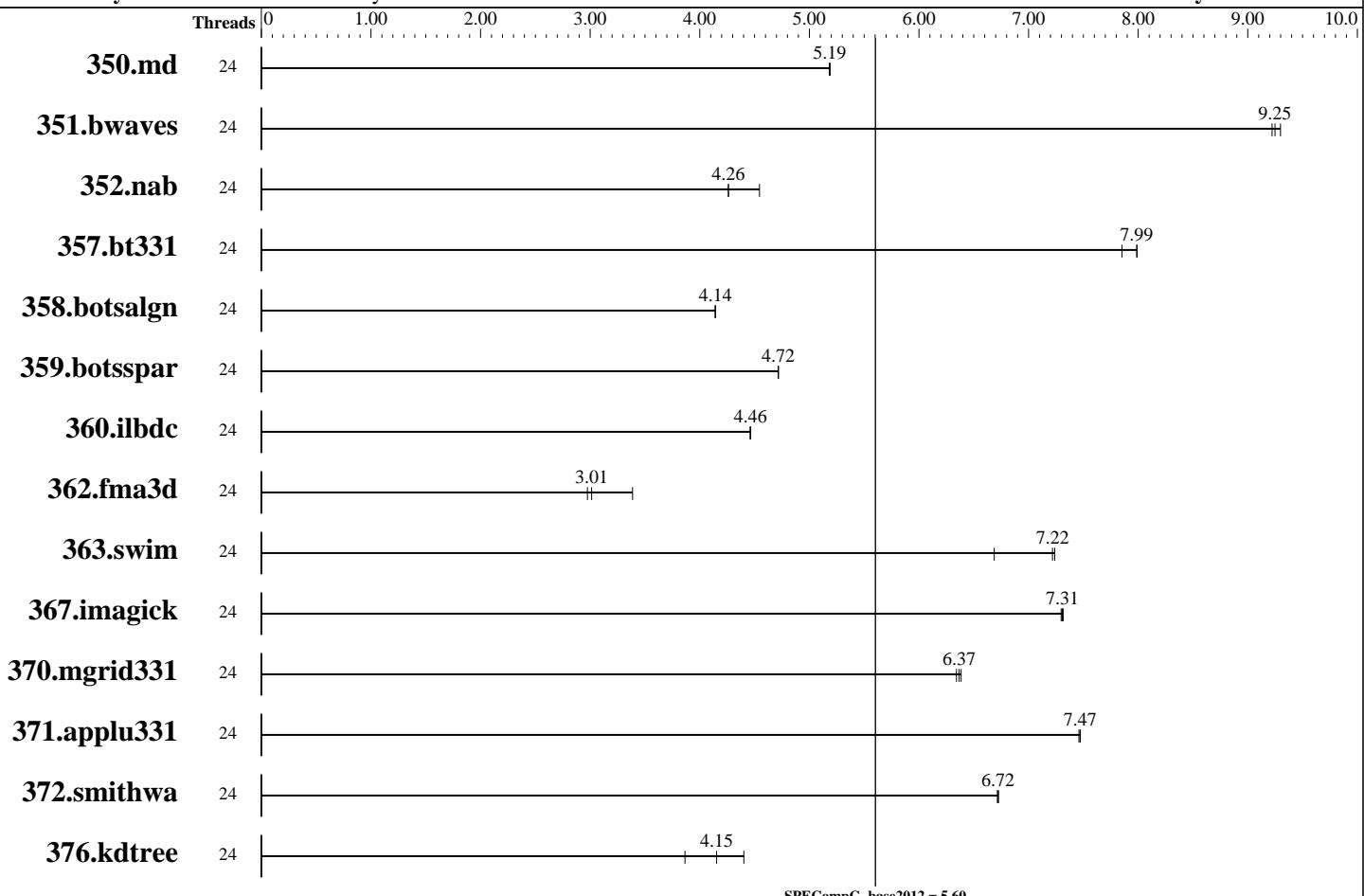
Test date: Jun-2017

Test sponsor: Indiana University

Hardware Availability: Apr-2013

Tested by: Indiana University

Software Availability: Mar-2017



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:	24

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 17.5 of PGI Premier Edition
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	Seconds	Ratio
350.md	24	892	5.19	893	5.18	893	5.19									
351.bwaves	24	487	9.30	490	9.25	491	9.22									
352.nab	24	856	4.55	913	4.26	913	4.26									
357.bt331	24	593	7.99	594	7.99	604	7.85									
358.botsalgn	24	1050	4.14	1050	4.14	1050	4.14									
359.botsspar	24	1113	4.72	1113	4.72	1113	4.72									
360.ilbdc	24	798	4.46	798	4.46	798	4.46									
362.fma3d	24	1122	3.39	1261	3.01	1277	2.98									
363.swim	24	626	7.24	677	6.69	628	7.22									
367.imagick	24	962	7.31	963	7.30	961	7.32									
370.mgrid331	24	694	6.37	697	6.34	692	6.38									
371.applu331	24	811	7.47	811	7.47	812	7.46									
372.smithwa	24	797	6.73	798	6.72	797	6.72									
376.kdtree	24	1164	3.87	1083	4.15	1022	4.40									

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/bigred2plus3/Docs/sysinfo
Revision 563 of 2016-06-10 (097295389cf6073d8c3b03fa376740a5)
running on nid00536 Mon Jul 17 20:53:10 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 nid00536 3.0.101-0.46.1_1.0502.8871-crav_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/bigred2plus3
Filesystem          Type  Size  Used Avail Use% Mounted
on
10.10.0.171@o2ib:10.10.0.172@o2ib:/dc2 lustre  5.3P  5.0P  253T  96% /N/dc2
```

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

```
(End of data from sysinfo program)
```

General Notes

Environment Variables:
OMP_STACKSIZE=1G
ulimit -s unlimited

Base Compiler Invocation

C benchmarks:
pgcc

C++ benchmarks:
pgc++

Fortran benchmarks:
pgf90



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Base Portability Flags

350.md: -Mfree
357.bt331: -mcmodel=medium
363.swim: -mcmodel=medium

Base Optimization Flags

C benchmarks:

-fast -Mfprelaxed -mp -Mipa=fast -Mipa=inline

C++ benchmarks:

-fast -Mfprelaxed -mp -Mipa=fast -Mipa=inline

Fortran benchmarks:

-fast -Mfprelaxed -mp -Mipa=fast -Mipa=inline

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

http://www.spec.org/omp2012/flags/pgi17_linux_flags.html

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

http://www.spec.org/omp2012/flags/pgi17_linux_flags.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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