



SPEC® OMPG2012 Result

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Cray
(Test Sponsor: Indiana University)

SPECompG_peak2012 = Not Run

Cray XE6

SPECompG_base2012 = 3.88

OMP2012 license:3440A

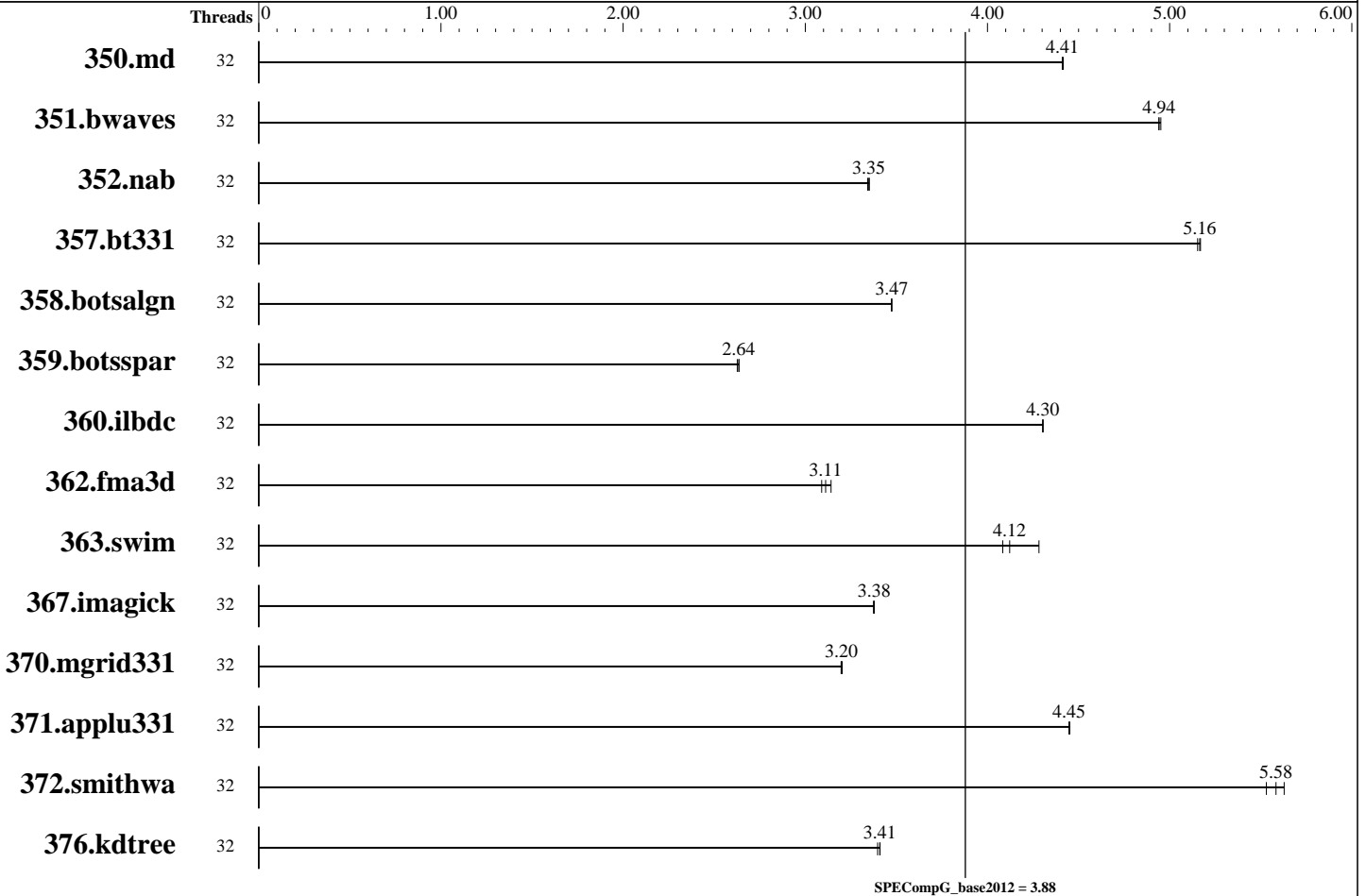
Test date: Oct-2013

Test sponsor: Indiana University

Hardware Availability: Apr-2013

Tested by: Indiana University

Software Availability: Aug-2013



Hardware

CPU Name: AMD Opteron 6380
 CPU Characteristics: AMD Turbo CORE Technology up to 3.4GHz, Turbo CORE on
 CPU MHz: 2500
 CPU MHz Maximum: 3400
 FPU: Integrated
 CPU(s) enabled: 32 cores, 2 chips, 16 cores/chip
 CPU(s) orderable: 1-2 chips
 Primary Cache: 512 KB I on chip per chip, 64 KB I shared / 2 cores; 16 KB D on chip per core
 Secondary Cache: 16 MB I+D on chip per chip, 2 MB shared / 2 cores
 L3 Cache: 16 MB I+D on chip per chip, 8 MB shared / 8 cores
 Other Cache: None
 Memory: 64 GB (8 x 8 GB 2Rx4 PC3L-12800R-11, ECC)
 Disk Subsystem: None
 Other Hardware: None

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Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Cray Linux Environment 4.1
 Kernel 2.6.32.59-0.7.1_1.0401.6845-cray_gem_c
 2.6.32.59-0.7.1_1.0401.6845-cray_gem_c
 Compiler: C/C++/Fortran: Version 13.1.3 of Intel Composer XE 2013 for Linux Build 20120607
 Auto Parallel: No
 File System: NFSv3 (IBM N5500 NAS) over Gb ethernet
 System State: Multi-user, run level 3
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other Software: None



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Base Threads Run: 32
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	32	1048	4.42	1049	4.41	1050	4.41							
351.bwaves	32	917	4.94	915	4.95	917	4.94							
352.nab	32	1164	3.34	1162	3.35	1161	3.35							
357.bt331	32	917	5.17	918	5.16	920	5.15							
358.botsalgn	32	1252	3.47	1252	3.47	1252	3.47							
359.botsspar	32	1999	2.63	1992	2.64	1992	2.64							
360.ilbdc	32	827	4.30	827	4.30	827	4.31							
362.fma3d	32	1221	3.11	1230	3.09	1210	3.14							
363.swim	32	1058	4.28	1099	4.12	1109	4.08							
367.imagick	32	2081	3.38	2083	3.37	2082	3.38							
370.mgrid331	32	1382	3.20	1383	3.20	1380	3.20							
371.applu331	32	1362	4.45	1362	4.45	1361	4.45							
372.smithwa	32	960	5.58	952	5.63	969	5.53							
376.kdtree	32	1320	3.41	1319	3.41	1325	3.40							

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

Platform Notes

```
Sysinfo program /N/soft/mason/omp2012-1.0/omp2012_br2/Docs/sysinfo
$Rev: 395 $ $Date:: 2012-07-25 # $ 8f8c0fe9e19c658963a1e67685e50647
running on nid00013 Fri Oct 25 08:47:32 2013
```

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 : AMD Opteron(tm) Processor 6380
 2 "physical id"s (chips)
 32 "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 : 16
siblings : 16
physical 0: cores 0 1 2 3 4 5 6 7
physical 1: cores 0 1 2 3 4 5 6 7
cache size : 2048 KB
```

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Platform Notes (Continued)

From /proc/meminfo

MemTotal: 66178284 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 = 1

mazama-release:

Mazama Wed Oct 31 02:36:27 CDT 2012 on hssbld0 by bwdev

lsb-cray-mazama-7.0.0

uname -a:

Linux nid00013 2.6.32.59-0.7.1_1.0401.6845-cray_gem_c #1 SMP Thu Nov 15

00:24:59 UTC 2012 x86_64 x86_64 x86_64 GNU/Linux

SPEC is set to: /N/soft/mason/omp2012-1.0/omp2012_br2

Filesystem Type Size Used Avail Use% Mounted on

/N/soft dvs 1.7T 1.5T 111G 94% /N/soft

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

(End of data from sysinfo program)

General Notes

Environment:

KMP_SCHEDULE=static,balanced

KMP_BLOCKTIME=infinite

KMP_LIBRARY=throughput

KMP_STACKSIZE=31m

ENV_OMP_NESTED=FALSE

OMP_NESTED=FALSE

OMP_DYNAMIC=FALSE

OMP_NUM_THREADS=32

threads = 32

Base Compiler Invocation

C benchmarks:

icc

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Base Compiler Invocation (Continued)

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Base Portability Flags

350.md: -free
367.imagick: -std=c99

Base Optimization Flags

C benchmarks:
-O3 -ansi-alias -no-prec-div -openmp -shared-intel -mmodel=medium

C++ benchmarks:
-O3 -ansi-alias -no-prec-div -openmp -shared-intel -mmodel=medium

Fortran benchmarks:
-O3 -no-prec-div -openmp -shared-intel -mmodel=medium

The flags file that was used to format this result can be browsed at
<http://www.spec.org/omp2012/flags/Intel-ic13.0-linux64.20131127.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/omp2012/flags/Intel-ic13.0-linux64.20131127.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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