



SPEC® OMPG2012 Result

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Hewlett-Packard Company

(Test Sponsor: The Portland Group)

ProLiant SL250

SPECompG_peak2012 = 3.80

SPECompG_base2012 = 3.80

OMP2012 license:019

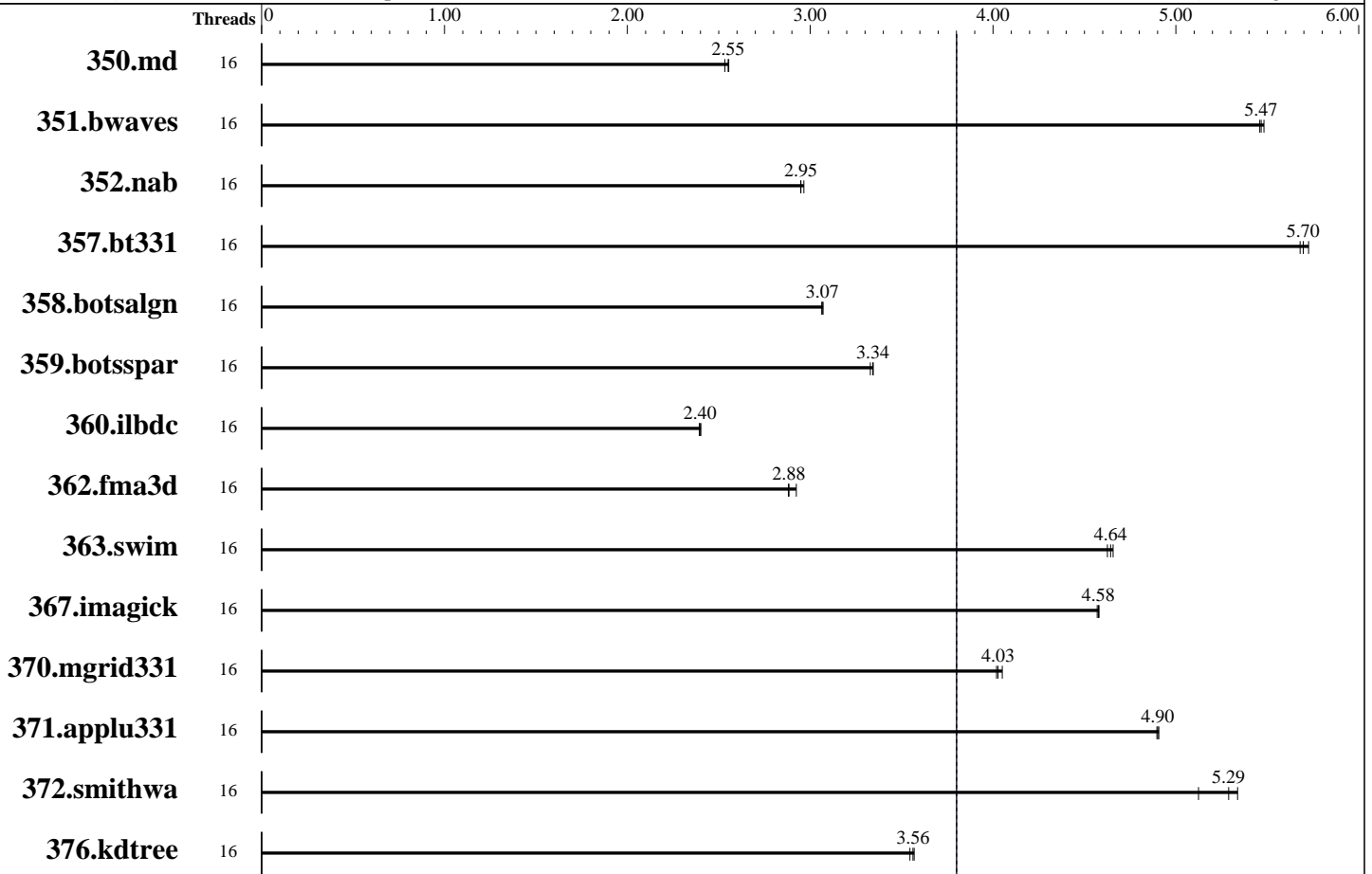
Test sponsor: The Portland Group

Tested by: The Portland Group

Test date: Jan-2013

Hardware Availability: Aug-2012

Software Availability: Aug-2012



SPECompG_base2012 = 3.80

SPECompG_peak2012 = 3.80

Hardware

CPU Name: Intel Xeon E5-2670
 CPU Characteristics: Intel Xeon CPU E5-2670 0 @ 2.60GHz
 CPU MHz: 2600
 CPU MHz Maximum: 3300
 FPU: Integrated
 CPU(s) enabled: 16 cores, 2 chips, 8 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: 20 MB I+D on chip per chip
 Other Cache: None
 Memory: 64 GB (8 x 8GB 2Rx4 PC3L-10600R-9, ECC)
 Disk Subsystem: 10 x 144GB, RAID, 10000 RPM
 Other Hardware: None
 Base Threads Run: 16
 Minimum Peak Threads: 16

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Software

Operating System: Red Hat Enterprise Linux Server release 6.2 (Santiago)
 2.6.32-220.el6.x86_64
 Compiler: C/C++/Fortran: Version 13.0 of Intel Composer XE 2013 Build 20120731
 Auto Parallel: No
 File System: nfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: None



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Maximum Peak Threads: 16

Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
350.md	16	1827	2.53	<u>1815</u>	<u>2.55</u>	1812	2.55	16	1827	2.53	<u>1815</u>	<u>2.55</u>	1812	2.55
351.bwaves	16	830	5.46	826	5.48	<u>829</u>	<u>5.47</u>	16	830	5.46	826	5.48	<u>829</u>	<u>5.47</u>
352.nab	16	<u>1319</u>	<u>2.95</u>	1319	2.95	1312	2.97	16	<u>1319</u>	<u>2.95</u>	1319	2.95	1312	2.97
357.bt331	16	835	5.68	<u>832</u>	<u>5.70</u>	828	5.73	16	835	5.68	<u>832</u>	<u>5.70</u>	828	5.73
358.botsalgn	16	1420	3.06	<u>1419</u>	<u>3.07</u>	1417	3.07	16	1420	3.06	<u>1419</u>	<u>3.07</u>	1417	3.07
359.botsspar	16	1577	3.33	1570	3.34	<u>1571</u>	<u>3.34</u>	16	1577	3.33	1570	3.34	<u>1571</u>	<u>3.34</u>
360.ilbdc	16	<u>1485</u>	<u>2.40</u>	1487	2.39	1482	2.40	16	<u>1485</u>	<u>2.40</u>	1487	2.39	1482	2.40
362.fma3d	16	<u>1317</u>	<u>2.88</u>	1319	2.88	1299	2.92	16	<u>1317</u>	<u>2.88</u>	1319	2.88	1299	2.92
363.swim	16	979	4.63	<u>976</u>	<u>4.64</u>	973	4.66	16	979	4.63	<u>976</u>	<u>4.64</u>	973	4.66
367.imagick	16	1538	4.57	<u>1536</u>	<u>4.58</u>	1535	4.58	16	1538	4.57	<u>1536</u>	<u>4.58</u>	1535	4.58
370.mgrid331	16	<u>1097</u>	<u>4.03</u>	1100	4.02	1091	4.05	16	<u>1097</u>	<u>4.03</u>	1100	4.02	1091	4.05
371.applu331	16	1238	4.90	1235	4.91	<u>1236</u>	<u>4.90</u>	16	1238	4.90	1235	4.91	<u>1236</u>	<u>4.90</u>
372.smithwa	16	1004	5.34	1046	5.12	<u>1013</u>	<u>5.29</u>	16	1004	5.34	1046	5.12	<u>1013</u>	<u>5.29</u>
376.kdtree	16	1261	3.57	1269	3.55	<u>1263</u>	<u>3.56</u>	16	1261	3.57	1269	3.55	<u>1263</u>	<u>3.56</u>

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

Platform Notes

```

Sysinfo program /scratch/cparrott/OMP2012_v1.0/Docs/sysinfo
$Rev: 395 $ $Date:: 2012-07-25 #$ 8f8c0fe9e19c658963ale67685e50647
running on node3 Thu Feb 7 16:04:09 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 : Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz
 2 "physical id"s (chips)
 16 "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 : 8
siblings : 8
physical 0: cores 0 1 2 3 4 5 6 7
physical 1: cores 0 1 2 3 4 5 6 7
cache size : 20480 KB

```

```

From /proc/meminfo
MemTotal: 65932772 kB

```

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Platform Notes (Continued)

HugePages_Total: 0
Hugepagesize: 2048 kB

```
/usr/bin/lsb_release -d
Red Hat Enterprise Linux Server release 6.2 (Santiago)
```

```
From /etc/*release* /etc/*version*
redhat-release: Red Hat Enterprise Linux Server release 6.2 (Santiago)
system-release: Red Hat Enterprise Linux Server release 6.2 (Santiago)
system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server
```

```
uname -a:
Linux node3 2.6.32-220.el6.x86_64 #1 SMP Wed Nov 9 08:03:13 EST 2011 x86_64
x86_64 x86_64 GNU/Linux
```

```
run-level 3 Feb 7 15:46
```

```
SPEC is set to: /scratch/cparrott/OMP2012_v1.0
Filesystem      Type      Size  Used Avail Use% Mounted on
filer01.pgi.net:/vol/voll/scratch
                nfs       727G  131G  597G  18% /proj/scratch
```

Additional information from dmidecode:

(End of data from sysinfo program)

General Notes

```
Software Environment:
KMP_AFFINITY=compact,0
KMP_LIBRARY=turnaround
KMP_BLOCKSIZE=infinite
KMP_STACKSIZE=31M
OMP_DYNAMIC=FALSE
```

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort



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Base Portability Flags

350.md: -free
357.bt331: -mcmmodel=medium
363.swim: -mcmmodel=medium
367.imagick: -std=c99

Base Optimization Flags

C benchmarks:
-O3 -xAVX -ipol -openmp -ansi-alias -shared-intel

C++ benchmarks:
-O3 -xAVX -ipol -openmp -shared-intel

Fortran benchmarks:
-O3 -xAVX -ipol -openmp -shared-intel

Peak Optimization Flags

C benchmarks:

352.nab: basepeak = yes

358.botsalgn: basepeak = yes

359.botsspar: basepeak = yes

367.imagick: basepeak = yes

372.smithwa: basepeak = yes

C++ benchmarks:

376.kdtree: basepeak = yes

Fortran benchmarks:

350.md: basepeak = yes

351.bwaves: basepeak = yes

357.bt331: basepeak = yes

360.ilbdc: basepeak = yes

362.fma3d: basepeak = yes

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Peak Optimization Flags (Continued)

363.swim: basepeak = yes

370.mgrid331: basepeak = yes

371.aplu331: basepeak = yes

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

<http://www.spec.org/omp2012/flags/SGI-OMP2012-ic13.20130220.html>

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

<http://www.spec.org/omp2012/flags/SGI-OMP2012-ic13.20130220.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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