



SPEC® OMPG2012 Result

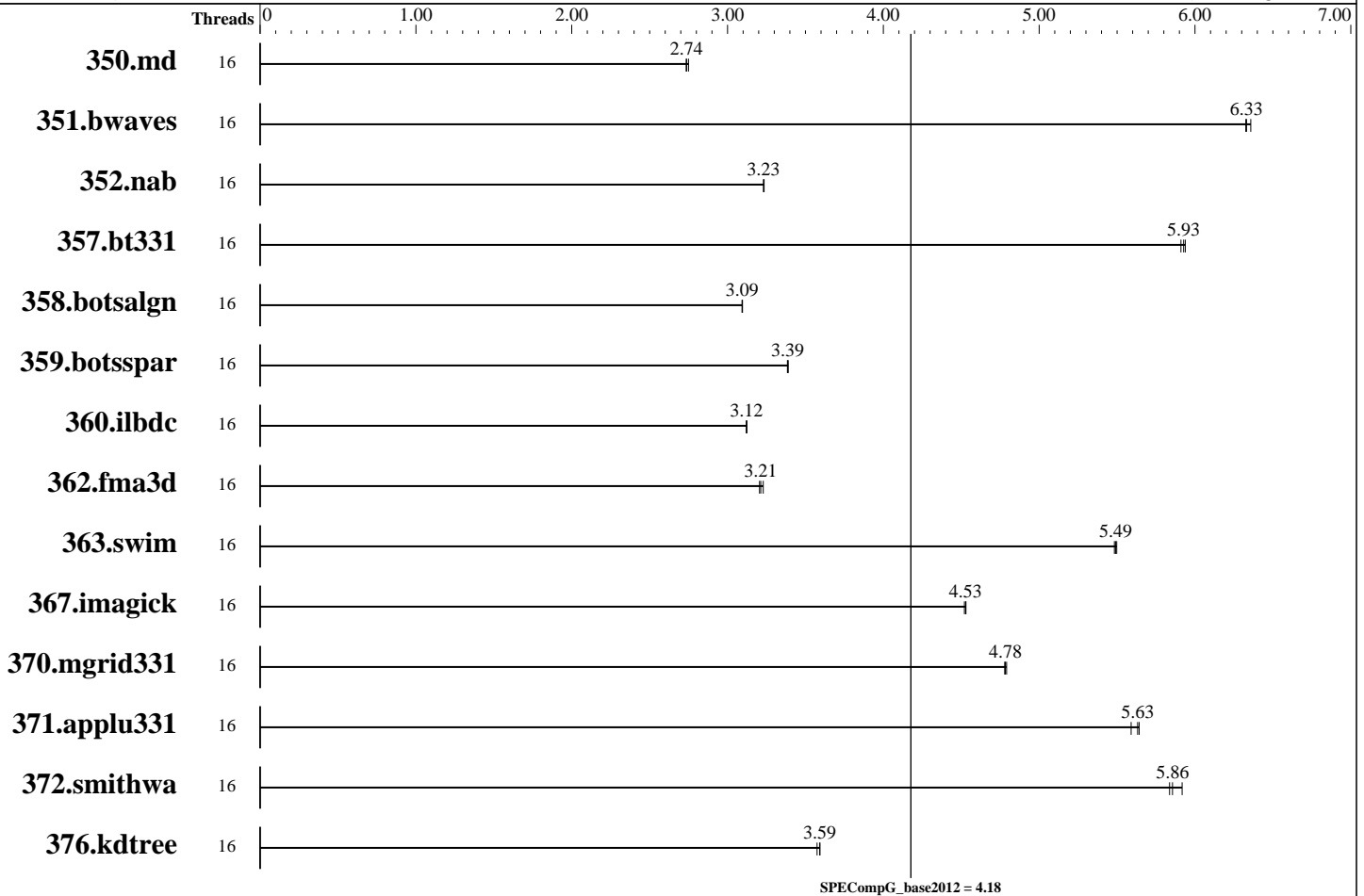
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Intel
Intel G29051-202

SPECompG_peak2012 = Not Run
SPECompG_base2012 = 4.18

OMP2012 license:13
Test sponsor: Intel
Tested by: Intel

Test date: Feb-2013
Hardware Availability: Mar-2012
Software Availability: Aug-2012



Hardware

CPU Name: Intel Xeon E5-2670
 CPU Characteristics: 2600
 CPU MHz: 3300
 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 8 GB 2Rx4 PC3-12800R-11, ECC)
 Disk Subsystem: Panasas ActiveStor 3050 Fileserver 64 disks, 250GB/disk, 16TB total, 4 Shelves connected via 1Gbps Ethernet
 Other Hardware: --

Continued on next page

Software

Operating System: Red Hat Enterprise Linux Server release 6.1(Santiago)
 Compiler: C/C++/Fortran: Version 13.0.0.079 of Intel Composer XE for Linux Build 20120731
 Auto Parallel: No
 File System: Linux ext3
 System State: Default
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other Software: None



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Base Threads Run: 16

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	16	1693	2.73	1684	2.75	<u>1691</u>	<u>2.74</u>							
351.bwaves	16	716	6.33	716	6.33	712	6.36							
352.nab	16	1204	3.23	1204	3.23	1203	3.23							
357.bt331	16	800	5.93	802	5.91	798	5.94							
358.botsalgn	16	1406	3.09	1406	3.09	1405	3.10							
359.botsspar	16	1551	3.39	1551	3.38	1549	3.39							
360.ilbdc	16	1140	3.12	1141	3.12	1140	3.12							
362.fma3d	16	1183	3.21	1186	3.21	1177	3.23							
363.swim	16	825	5.49	826	5.48	824	5.50							
367.imagick	16	1555	4.52	1552	4.53	1553	4.53							
370.mgrid331	16	924	4.78	925	4.78	923	4.79							
371.applu331	16	1076	5.63	1074	5.64	1084	5.59							
372.smithwa	16	906	5.92	915	5.86	918	5.84							
376.kdtree	16	1259	3.57	1253	3.59	1252	3.59							

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

Platform Notes

```

Sysinfo program /panfs/panfs2/home2/aknyazel/OMP2012/1.0/Docs/sysinfo
$Rev: 395 $ $Date:: 2012-07-25 #$ 8f8c0fe9e19c658963a1e67685e50647
running on esg326 Fri Feb 15 21:57:34 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)
 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 : 8
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 : 20480 KB

```

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Platform Notes (Continued)

From /proc/meminfo

MemTotal: 66055220 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

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

redhat-release: Red Hat Enterprise Linux Server release 6.1 (Santiago)
system-release: Red Hat Enterprise Linux Server release 6.1 (Santiago)
system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server

uname -a:

Linux esg326 2.6.32-131.0.15.el6.x86_64.crt.1 #3 SMP Fri May 20 16:57:43 PDT
2011 x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Feb 14 10:15

SPEC is set to: /panfs/panfs2/home2/aknyazel/OMP2012/1.0

```
Filesystem      Type      Size  Used Avail Use% Mounted on
panfs://36.107.212.1/home2
                panfs      14T   9.0T  4.7T  66% /panfs/panfs2/home2
```

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

(End of data from sysinfo program)

General Notes

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BIOS settings notes:

Intel Turbo Boost Technology (Turbo) : Enabled

=====

General Notes and Enviroment variables

ENV_KMP_LIBRARY=turnaround
ENV_KMP_STACKSIZE=256M
ENV_KMP_BLOCKTIME=infinite
ENV_OMP_DYNAMIC=FALSE
ENV_KMP_AFFINITY=compact,1

=====

base:gross:

COPTIMIZE = -O3 -xAVX -ipol -openmp -ansi-alias -shared-intel
CXXOPTIMIZE = -O3 -xAVX -ipol -openmp -shared-intel
FOPTIMIZE = -O3 -xAVX -ipol -openmp -shared-intel



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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Base Portability Flags

350.md: -free
357.bt331: -mmodel=medium
363.swim: -mmodel=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

The flags file that was used to format this result can be browsed at
<http://www.spec.org/omp2012/flags/Intel-ic13.0-linux64.20130306.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/omp2012/flags/Intel-ic13.0-linux64.20130306.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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