



SPEC® OMPG2012 Result

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Intel
Intel G29051-202

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 4.18

OMP2012 license:13

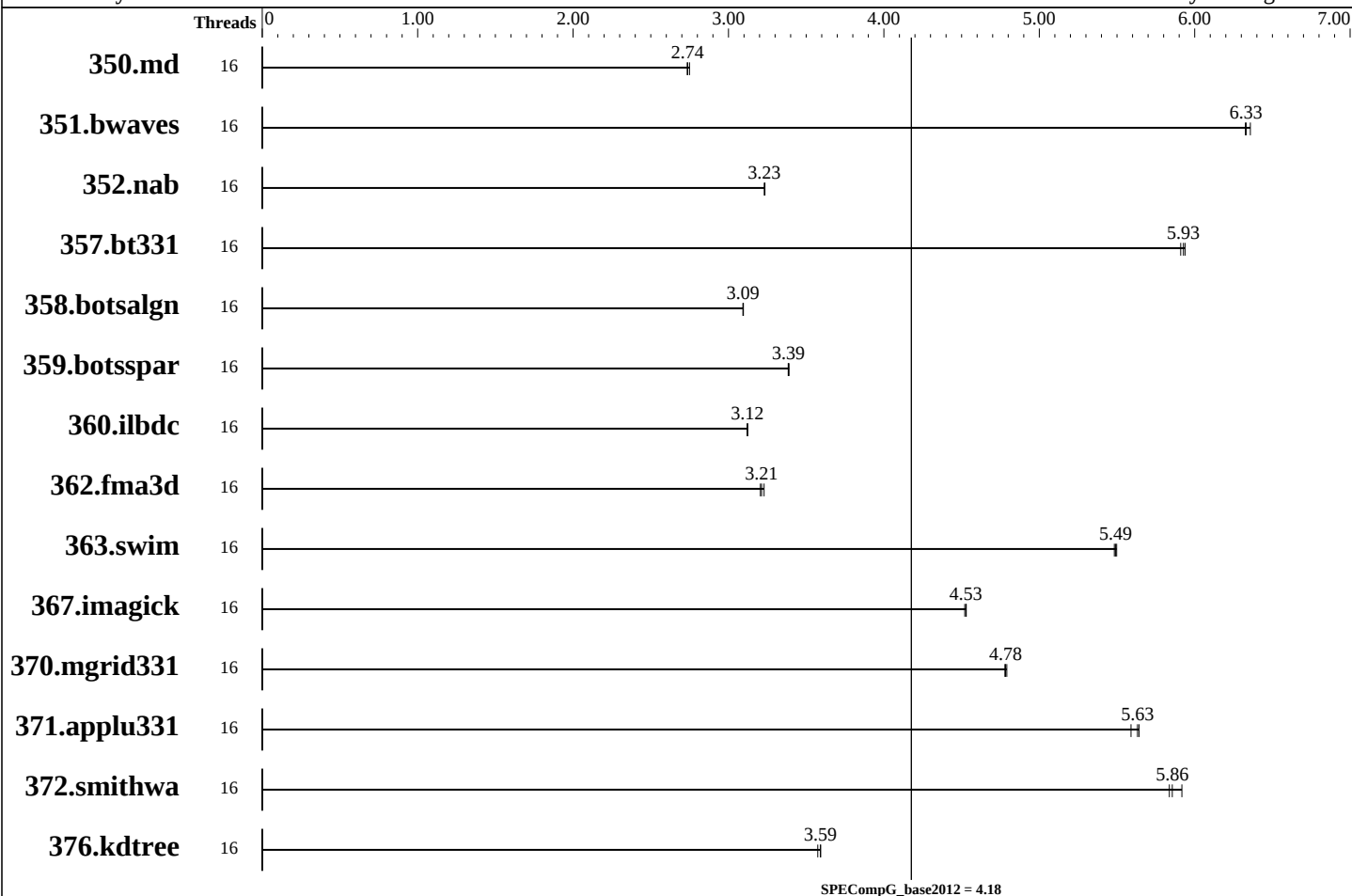
Test sponsor: Intel

Tested by: Intel

Test date: Feb-2013

Hardware Availability: Mar-2012

Software Availability: Aug-2012



Hardware

CPU Name: Intel Xeon E5-2670
CPU Characteristics:
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 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: --

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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/aknyaze1/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/aknyaze1/OMP2012/1.0

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
------------	------	------	------	-------	------	------------

panfs://36.107.212.1/home2						
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panfs		14T	9.0T	4.7T	66%	/panfs/panfs2/home2
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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

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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 -ipo1 -openmp -ansi-alias -shared-intel

CXXOPTIMIZE = -O3 -xAVX -ipo1 -openmp -shared-intel

FOPTIMIZE = -O3 -xAVX -ipo1 -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: -mcmodel=medium
363.swim: -mcmodel=medium
367.imagick: -std=c99

Base Optimization Flags

C benchmarks:
-O3 -xAVX -ipo1 -openmp -ansi-alias -shared-intel

C++ benchmarks:
-O3 -xAVX -ipo1 -openmp -shared-intel

Fortran benchmarks:
-O3 -xAVX -ipo1 -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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