



SPEC® OMPG2012 Result

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Supermicro
(Test Sponsor: HZDR)

SPECompG_peak2012 = Not Run

Supermicro H8QGi+-F

SPECompG_base2012 = 3.24

OMP2012 license:65A

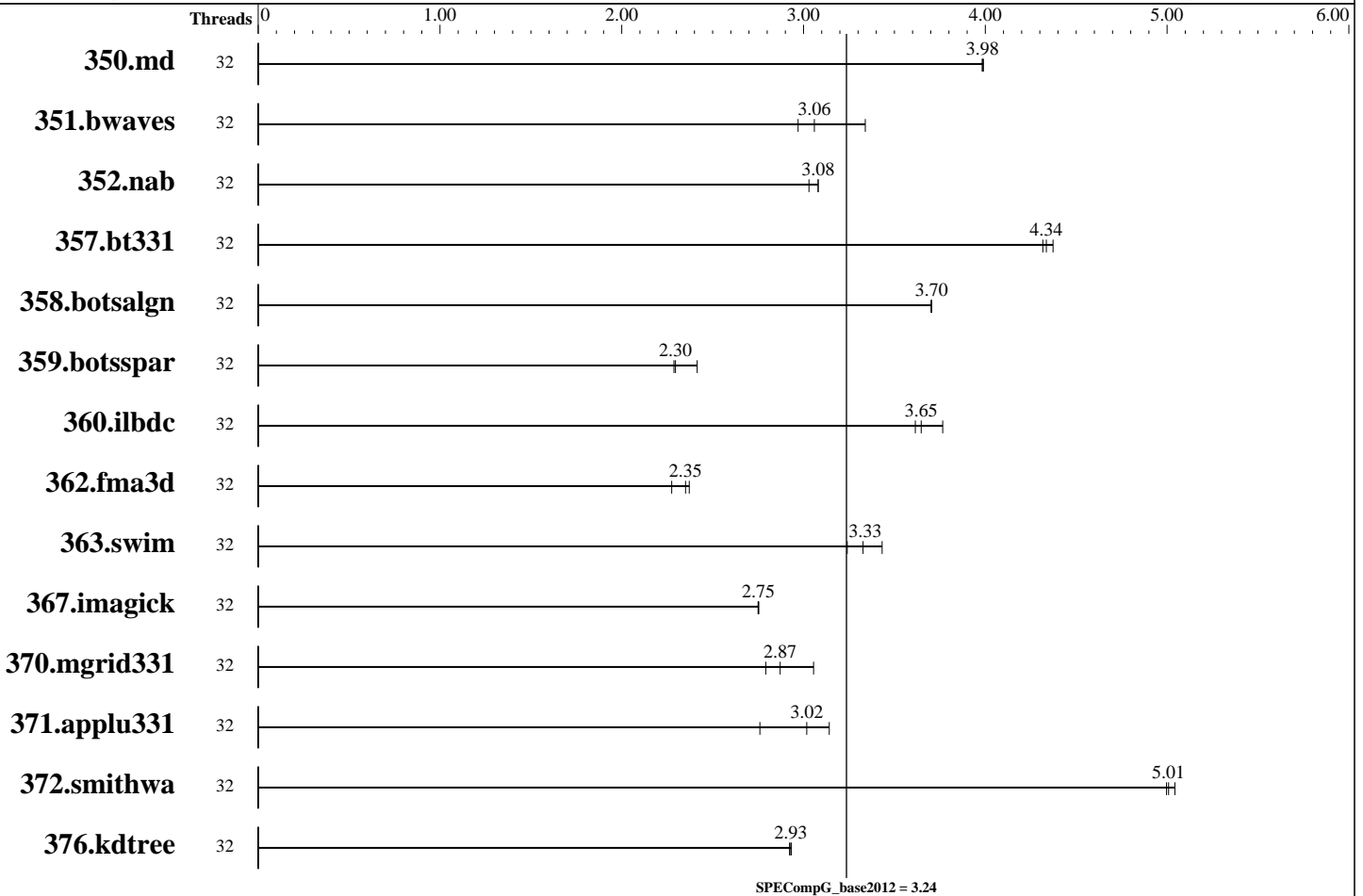
Test sponsor: HZDR

Tested by: HZDR

Test date: Aug-2017

Hardware Availability: Nov-2011

Software Availability: Feb-2017



Hardware

CPU Name: AMD Opteron 6276
 CPU Characteristics: AMD Turbo CORE technology up to 3.20 GHz
 CPU MHz: 2300
 CPU MHz Maximum: 3200
 FPU: Integrated
 CPU(s) enabled: 64 cores, 4 chips, 16 cores/chip
 CPU(s) orderable: 2,4 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: 256 GB (32 x 8 GB 2Rx4 PC3-10600R-9, ECC)
 Disk Subsystem: 500 GB (1 x 500 GB SATA 7200rpm)
 Other Hardware: --

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Software

Operating System: Ubuntu 14.04 LTS
 Kernel 4.4.0-38-generic
 Compiler: C/C++/Fortran: Version 17.0.2.174 of the Intel
 Compilers
 Build 20170213
 Auto Parallel: No
 File System: ext3
 System State: run-level 5
 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	<u>1162</u>	<u>3.98</u>	1162	3.98	1160	3.99							
351.bwaves	32	<u>1481</u>	<u>3.06</u>	1356	3.34	1525	2.97							
352.nab	32	1284	3.03	<u>1263</u>	<u>3.08</u>	1263	3.08							
357.bt331	32	1098	4.32	1084	4.37	<u>1093</u>	<u>4.34</u>							
358.botsalgn	32	1175	3.70	1174	3.71	<u>1174</u>	<u>3.70</u>							
359.botsspar	32	<u>2287</u>	<u>2.30</u>	2174	2.41	2295	2.29							
360.ilbdc	32	<u>976</u>	<u>3.65</u>	945	3.77	985	3.61							
362.fma3d	32	1670	2.27	1602	2.37	<u>1616</u>	<u>2.35</u>							
363.swim	32	1320	3.43	1398	3.24	<u>1361</u>	<u>3.33</u>							
367.imagick	32	<u>2555</u>	<u>2.75</u>	2556	2.75	2553	2.75							
370.mgrid331	32	1447	3.06	<u>1539</u>	<u>2.87</u>	1583	2.79							
371.applu331	32	2196	2.76	<u>2008</u>	<u>3.02</u>	1929	3.14							
372.smithwa	32	<u>1070</u>	<u>5.01</u>	1073	5.00	1063	5.04							
376.kdtree	32	1540	2.92	<u>1536</u>	<u>2.93</u>	1535	2.93							

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

Platform Notes

Sysinfo program /tmp/spec/1.1/Docs/sysinfo
Revision 563 of 2016-06-10 (097295389cf6073d8c3b03fa376740a5)
running on laser082 Thu Aug 3 13:00:44 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/ompg2012/Docs/config.html#sysinfo>

```

From /proc/cpuinfo
model name : AMD Opteron(TM) Processor 6276
 4 "physical id"s (chips)
 64 "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
physical 2: cores 0 1 2 3 4 5 6 7
physical 3: cores 0 1 2 3 4 5 6 7

```

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Platform Notes (Continued)

cache size : 2048 KB

From /proc/meminfo

MemTotal: 264017344 kB

HugePages_Total: 0

Hugepagesize: 2048 kB

/usr/bin/lsb_release -d

Ubuntu 14.04.5 LTS

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

debian_version: jessie/sid

os-release:

NAME="Ubuntu"

VERSION="14.04.5 LTS, Trusty Tahr"

ID=ubuntu

ID_LIKE=debian

PRETTY_NAME="Ubuntu 14.04.5 LTS"

VERSION_ID="14.04"

HOME_URL="http://www.ubuntu.com/"

SUPPORT_URL="http://help.ubuntu.com/"

rh-release: Red Hat Enterprise Linux Server release 7.2 (Maipo)

uname -a:

Linux laser082 4.4.0-38-generic #57~14.04.1-Ubuntu SMP Tue Sep 6 17:20:43 UTC

2016 x86_64 x86_64 x86_64 GNU/Linux

run-level 5 Apr 5 08:55

SPEC is set to: /tmp/spec/1.1

Filesystem Type Size Used Avail Use% Mounted on

/dev/sdal ext3 37G 8.2G 27G 24% /

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

(End of data from sysinfo program)

General Notes

Environment:

KMP_LIBRARY=turnaround

KMP_BLOCKTIME=infinite

KMP_STACKSIZE=190M

OMP_DYNAMIC=FALSE

OMP_NESTED=FALSE



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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Base Portability Flags

350.md: -FR
357.bt331: -mmodel=medium
363.swim: -mmodel=medium
367.imagick: -std=c99

Base Optimization Flags

C benchmarks:
-O2 -openmp -ipo -ansi-alias

C++ benchmarks:
-O2 -openmp -ipo -ansi-alias

Fortran benchmarks:
-O2 -openmp -ipo -align array64byte

The flags file that was used to format this result can be browsed at
http://www.spec.org/omp2012/flags/Intel-17.2-linux_flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/omp2012/flags/Intel-17.2-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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