



SPEC® OMPG2012 Result

Copyright 2012-2017 Standard Performance Evaluation Corporation

Supermicro

(Test Sponsor: HZDR)

Supermicro H8QGi+-F

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 3.83

OMP2012 license:65A

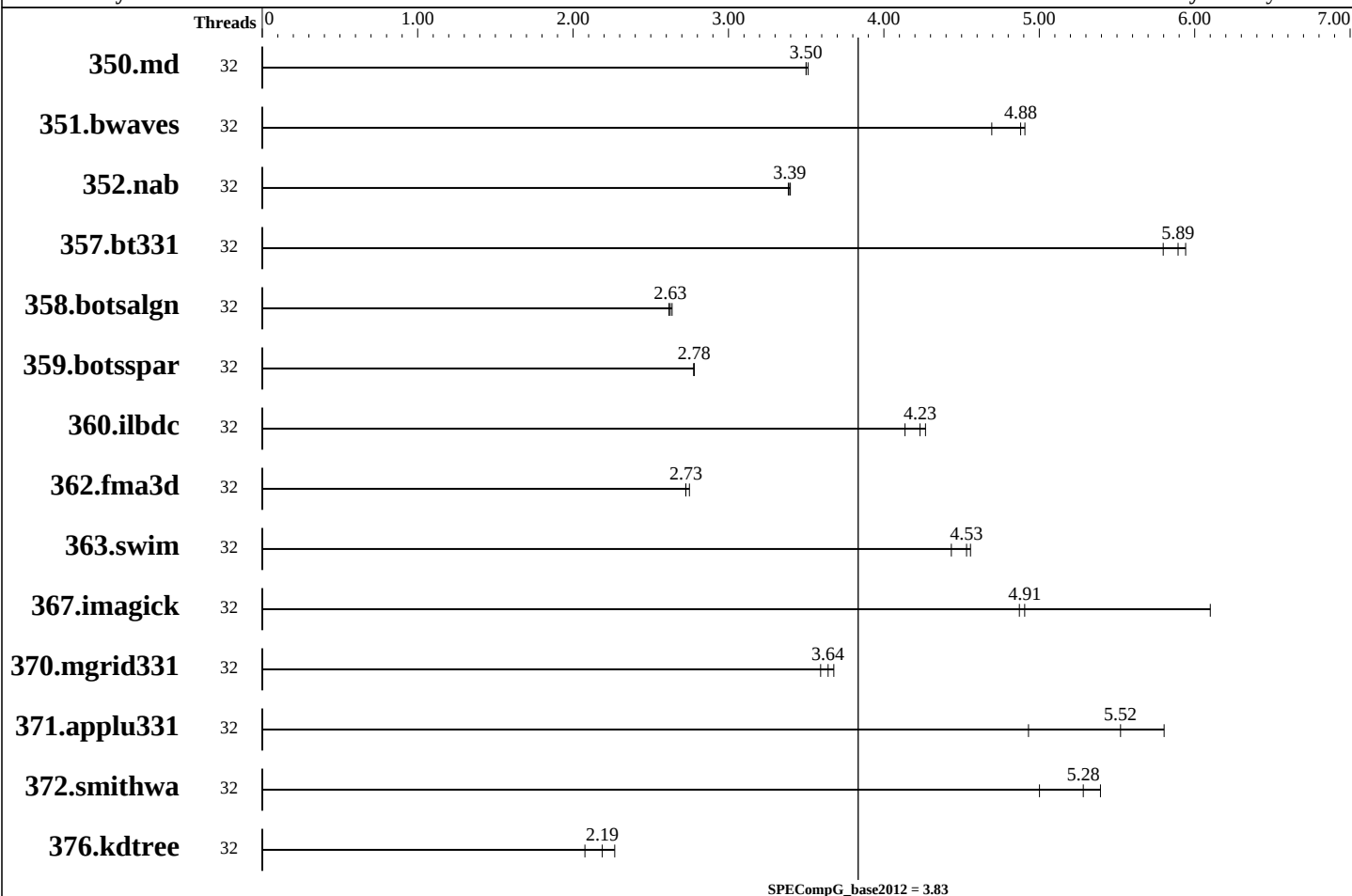
Test sponsor: HZDR

Tested by: HZDR

Test date: Aug-2017

Hardware Availability: Nov-2011

Software Availability: May-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: --

Continued on next page

Software

Operating System: Ubuntu 14.04 LTS
Kernel 4.4.0-38-generic
Compiler: C/C++/Fortran: Version 17.5 of the PGI Compilers
Auto Parallel: No
File System: ext3
System State: run-level 5
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: None



SPEC OMPG2012 Result

Copyright 2012-2017 Standard Performance Evaluation Corporation

Supermicro

(Test Sponsor: HZDR)

Supermicro H8QGi+-F

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 3.83

OMP2012 license:65A

Test sponsor: HZDR

Tested by: HZDR

Test date: Aug-2017

Hardware Availability: Nov-2011

Software Availability: May-2017

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	1323	3.50	<u>1323</u>	<u>3.50</u>	1318	3.51							
351.bwaves	32	923	4.91	965	4.69	<u>928</u>	<u>4.88</u>							
352.nab	32	1149	3.39	1145	3.40	<u>1146</u>	<u>3.39</u>							
357.bt331	32	798	5.94	<u>804</u>	<u>5.89</u>	818	5.80							
358.botsalgn	32	1650	2.64	<u>1657</u>	<u>2.63</u>	1662	2.62							
359.botsspar	32	1891	2.78	<u>1889</u>	<u>2.78</u>	1889	2.78							
360.ilbdc	32	834	4.27	861	4.14	<u>841</u>	<u>4.23</u>							
362.fma3d	32	1394	2.73	<u>1394</u>	<u>2.73</u>	1382	2.75							
363.swim	32	994	4.56	1022	4.43	<u>1000</u>	<u>4.53</u>							
367.imagick	32	<u>1433</u>	<u>4.91</u>	1152	6.10	1443	4.87							
370.mgrid331	32	<u>1214</u>	<u>3.64</u>	1202	3.68	1230	3.59							
371.applu331	32	1044	5.80	<u>1097</u>	<u>5.52</u>	1229	4.93							
372.smithwa	32	994	5.39	1072	5.00	<u>1015</u>	<u>5.28</u>							
376.kdtree	32	2167	2.08	1984	2.27	<u>2057</u>	<u>2.19</u>							

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 Fri Aug 4 06:49:36 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/omp2012/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

```

Continued on next page



SPEC OMPG2012 Result

Copyright 2012-2017 Standard Performance Evaluation Corporation

Supermicro

(Test Sponsor: HZDR)

Supermicro H8QGi+-F

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 3.83

OMP2012 license:65A

Test sponsor: HZDR

Tested by: HZDR

Test date: Aug-2017

Hardware Availability: Nov-2011

Software Availability: May-2017

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/sda1	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:

OMP_NESTED=FALSE

OMP_DYNAMIC=FALSE

Base Compiler Invocation

C benchmarks:

pgcc

Continued on next page

Standard Performance Evaluation Corporation

info@spec.org

http://www.spec.org/

Page 3



SPEC OMPG2012 Result

Copyright 2012-2017 Standard Performance Evaluation Corporation

Supermicro

(Test Sponsor: HZDR)

Supermicro H8QGi+-F

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 3.83

OMP2012 license:65A

Test sponsor: HZDR

Tested by: HZDR

Test date: Aug-2017

Hardware Availability: Nov-2011

Software Availability: May-2017

Base Compiler Invocation (Continued)

C++ benchmarks:
pgc++

Fortran benchmarks:
pgf90

Base Portability Flags

350.md: -Mfree

Base Optimization Flags

C benchmarks:
-mp -fast -Mvect=simd:256 -Msmartalloc=huge -mcmodel=medium

C++ benchmarks:
-mp -fast -Mvect=simd:256 -Msmartalloc=huge -mcmodel=medium

Fortran benchmarks:
-mp -fast -Mvect=simd:256 -Msmartalloc=huge -mcmodel=medium

The flags file that was used to format this result can be browsed at
http://www.spec.org/omp2012/flags/pgi175_linux_flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/omp2012/flags/pgi175_linux_flags.xml

SPEC is a registered trademark of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC OMP2012 v1.1.
Report generated on Wed Sep 6 18:01:59 2017 by SPEC OMP2012 PS/PDF formatter v541.
Originally published on 6 September 2017.