



# SPEC® OMPG2012 Result

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Supermicro

(Test Sponsor: HZDR)

SPECompG\_peak2012 = Not Run

## Supermicro H8QGi+-F

SPECompG\_base2012 = 2.47

OMP2012 license:65A

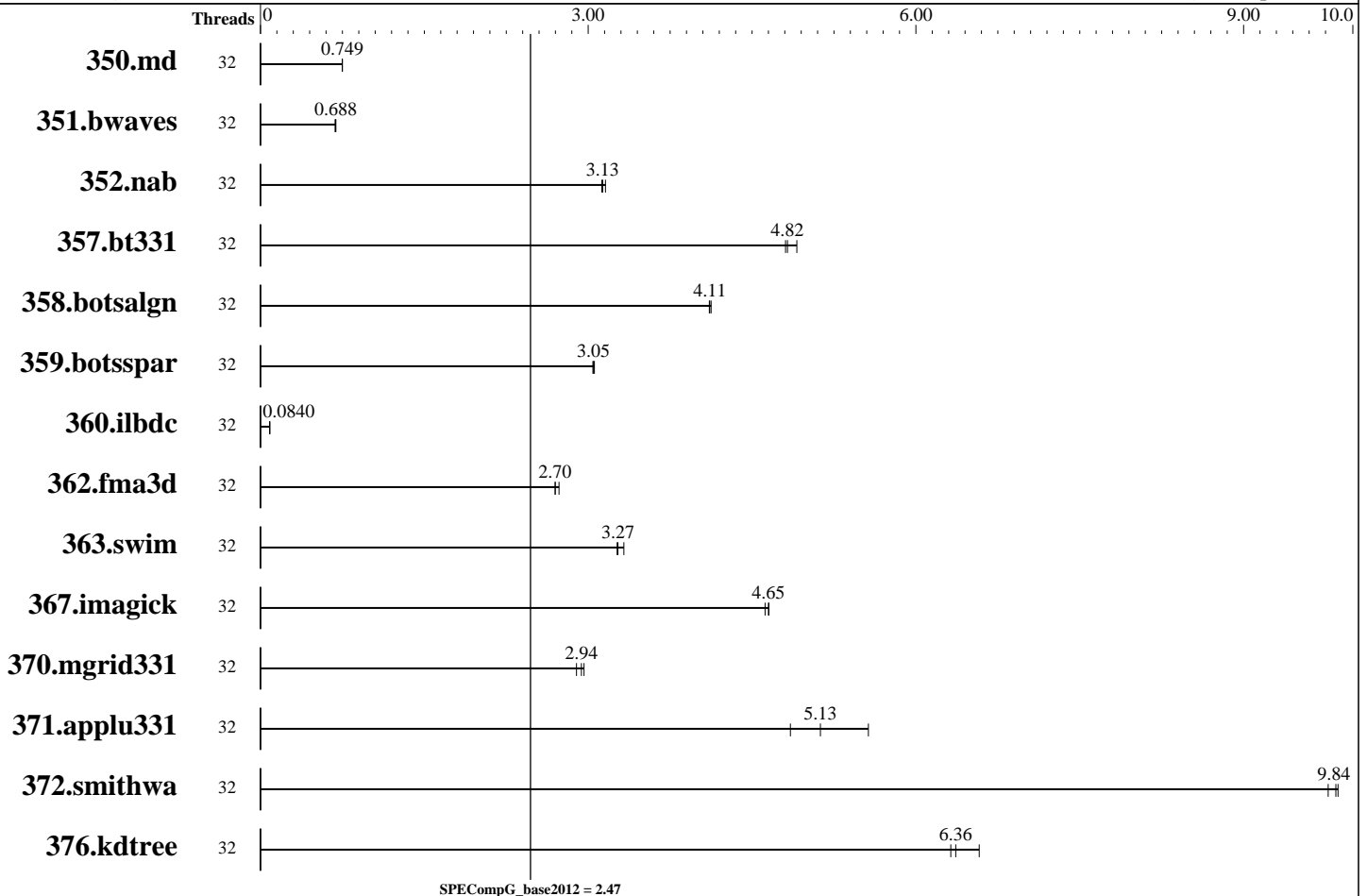
Test sponsor: HZDR

Tested by: HZDR

Test date: Aug-2017

Hardware Availability: Nov-2011

Software Availability: Sep-2016



### 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 6.2 of the GNU Compilers  
 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	6187	0.748	6179	0.749	<b>6181</b>	<b>0.749</b>							
351.bwaves	32	6564	0.690	<b>6587</b>	<b>0.688</b>	6634	0.683							
352.nab	32	<b>1242</b>	<b>3.13</b>	1232	3.16	1245	3.12							
357.bt331	32	986	4.81	<b>983</b>	<b>4.82</b>	965	4.91							
358.botsalgn	32	1054	4.13	1059	4.11	<b>1058</b>	<b>4.11</b>							
359.botsspar	32	<b>1722</b>	<b>3.05</b>	1718	3.06	1725	3.04							
360.ilbdc	32	41568	0.0856	42727	0.0833	<b>42402</b>	<b>0.0840</b>							
362.fma3d	32	1390	2.73	<b>1408</b>	<b>2.70</b>	1409	2.70							
363.swim	32	1388	3.26	1362	3.33	<b>1384</b>	<b>3.27</b>							
367.imagick	32	1510	4.65	<b>1512</b>	<b>4.65</b>	1522	4.62							
370.mgrid331	32	<b>1505</b>	<b>2.94</b>	1492	2.96	1528	2.89							
371.applu331	32	1089	5.57	1249	4.85	<b>1182</b>	<b>5.13</b>							
372.smithwa	32	548	9.77	543	9.86	<b>544</b>	<b>9.84</b>							
376.kdtree	32	712	6.32	684	6.58	<b>707</b>	<b>6.36</b>							

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 laser081 Thu Aug 3 13:00:40 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

```

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### Platform Notes (Continued)

```

cache size : 2048 KB

From /proc/meminfo
MemTotal:      264000972 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 laser081 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 Jul 21 17:12

SPEC is set to: /tmp/spec/1.1
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sdal       ext3  37G   8.1G   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:  
gcc

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## Base Compiler Invocation (Continued)

C++ benchmarks:  
g++

Fortran benchmarks:  
gfortran

## Base Portability Flags

350.md: -ffree-form -fno-range-check

## Base Optimization Flags

C benchmarks:  
-fopenmp -O3

C++ benchmarks:  
-fopenmp -O3

Fortran benchmarks:  
-fopenmp -O3

The flags file that was used to format this result can be browsed at  
[http://www.spec.org/omp2012/flags/gcc62\\_linux\\_flags.html](http://www.spec.org/omp2012/flags/gcc62_linux_flags.html)

You can also download the XML flags source by saving the following link:  
[http://www.spec.org/omp2012/flags/gcc62\\_linux\\_flags.xml](http://www.spec.org/omp2012/flags/gcc62_linux_flags.xml)

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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