



# SPEC® OMPG2012 Result

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Supermicro

(Test Sponsor: HZDR)

SPECompG\_peak2012 = Not Run

## Supermicro H8QGi+-F

SPECompG\_base2012 = 6.16

OMP2012 license:65A

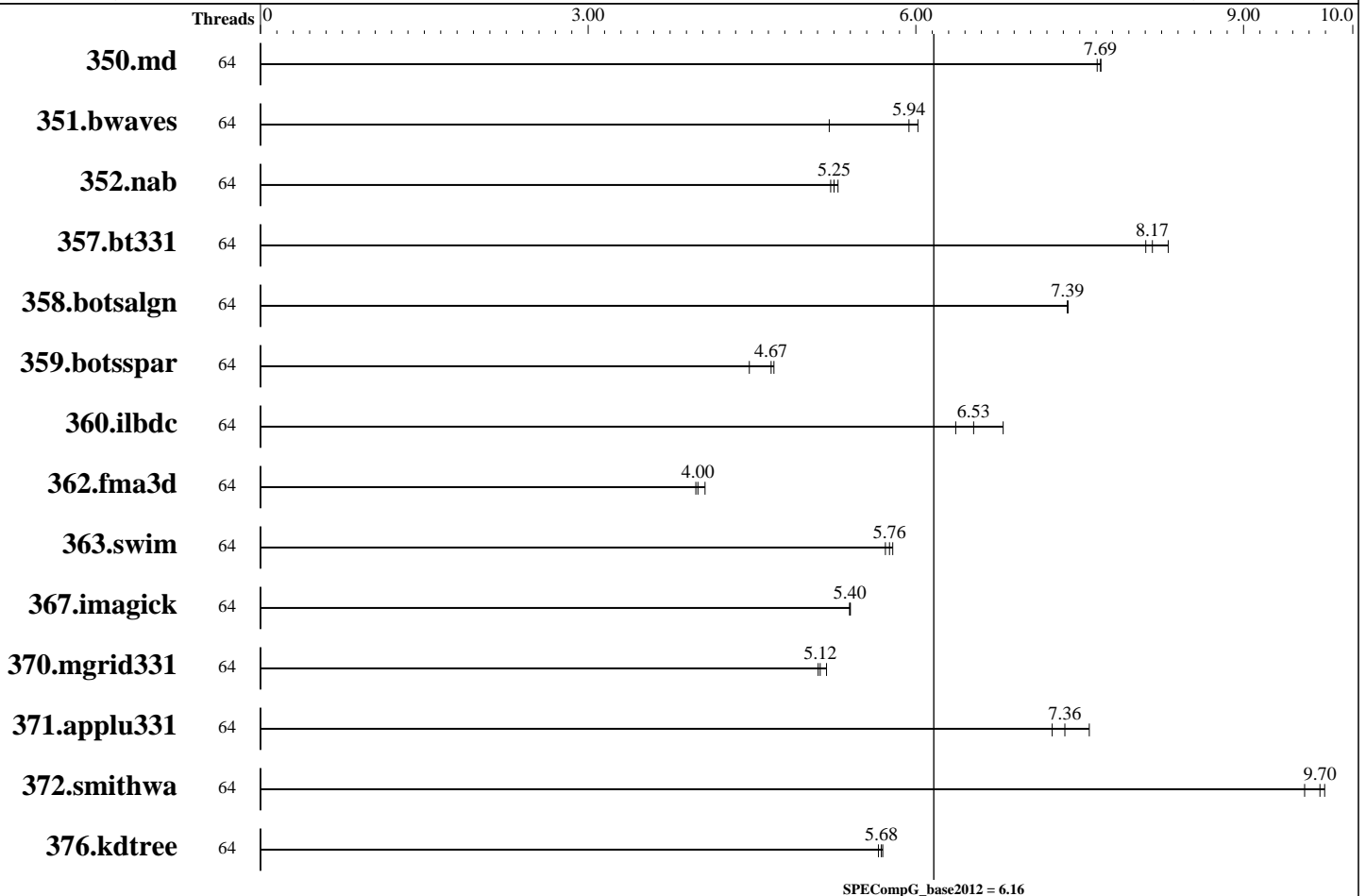
Test sponsor: HZDR

Tested by: HZDR

Test date: Jun-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: 64  
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	64	<b>602</b>	<b>7.69</b>	604	7.66	602	7.69									
351.bwaves	64	870	5.21	<b>763</b>	<b>5.94</b>	753	6.02									
352.nab	64	745	5.22	<b>741</b>	<b>5.25</b>	736	5.29									
357.bt331	64	570	8.31	585	8.10	<b>580</b>	<b>8.17</b>									
358.botsalgn	64	588	7.39	589	7.39	<b>589</b>	<b>7.39</b>									
359.botsspar	64	1173	4.48	<b>1123</b>	<b>4.67</b>	1117	4.70									
360.ilbdc	64	559	6.36	524	6.80	<b>545</b>	<b>6.53</b>									
362.fma3d	64	934	4.07	<b>949</b>	<b>4.00</b>	953	3.99									
363.swim	64	<b>787</b>	<b>5.76</b>	792	5.72	783	5.79									
367.imagick	64	<b>1303</b>	<b>5.40</b>	1304	5.39	1302	5.40									
370.mgrid331	64	853	5.18	866	5.11	<b>863</b>	<b>5.12</b>									
371.applu331	64	836	7.25	799	7.59	<b>823</b>	<b>7.36</b>									
372.smithwa	64	550	9.74	561	9.56	<b>553</b>	<b>9.70</b>									
376.kdtree	64	790	5.70	795	5.66	<b>792</b>	<b>5.68</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 laser084 Thu Jun 29 11:52:20 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 laser084 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 Jan 13 08:40
```

```
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:  
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](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](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](mailto:webmaster@spec.org).

Tested with SPEC OMP2012 v1.1.  
Report generated on Wed Sep 6 18:01:50 2017 by SPEC OMP2012 PS/PDF formatter v541.  
Originally published on 6 September 2017.