



SPEC® OMPG2012 Result

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Supermicro
(Test Sponsor: HZDR)

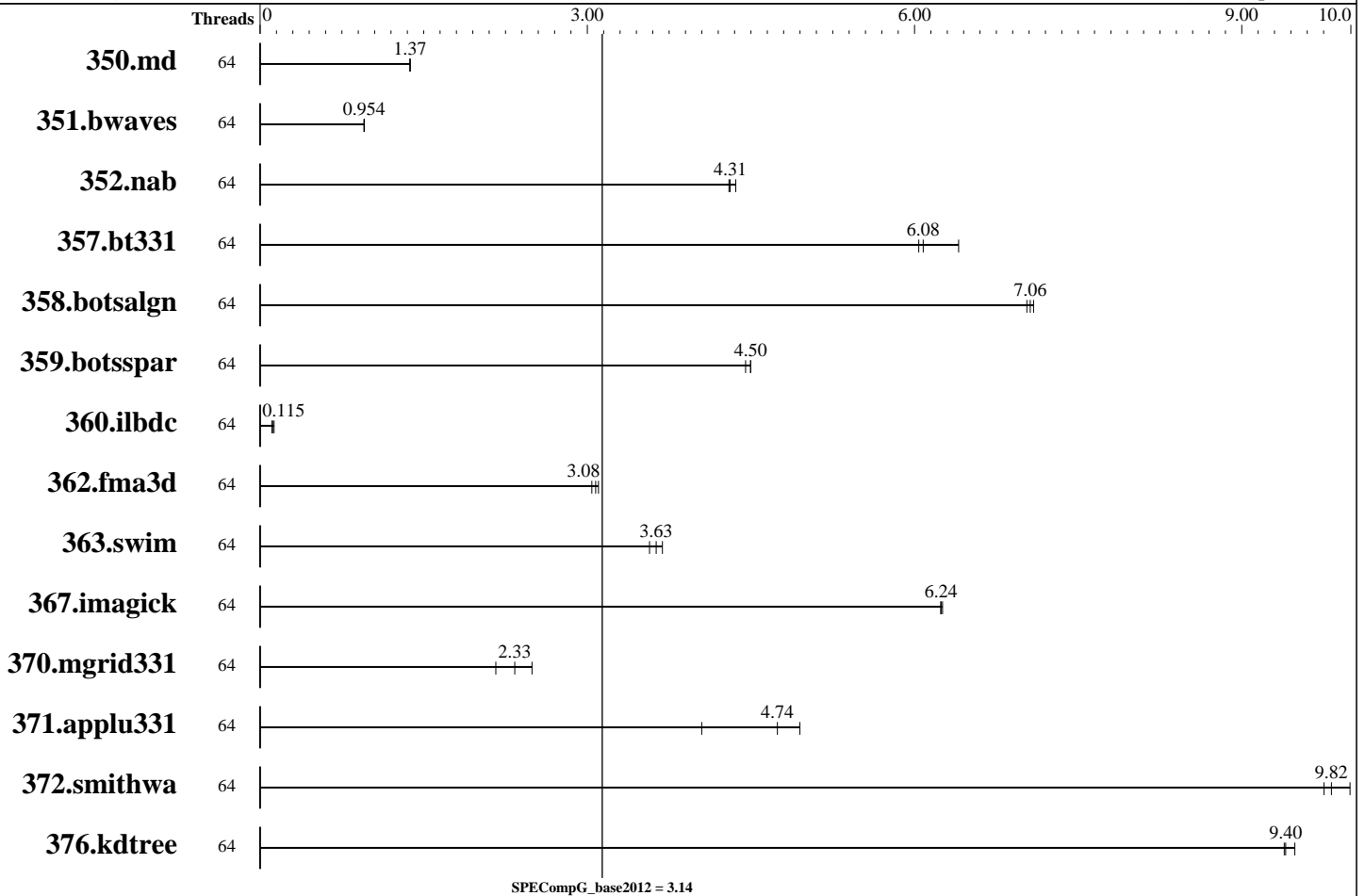
SPECompG_peak2012 = Not Run

Supermicro H8QGi+-F

SPECompG_base2012 = 3.14

OMP2012 license:65A
Test sponsor: HZDR
Tested by: HZDR

Test date: Jul-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: 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	3368	1.37	3369	1.37	3367	1.38							
351.bwaves	64	4756	0.953	4737	0.956	4749	0.954							
352.nab	64	903	4.31	905	4.30	892	4.36							
357.bt331	64	785	6.04	780	6.08	740	6.40							
358.botsalgn	64	619	7.03	616	7.06	613	7.09							
359.botsspar	64	1167	4.50	1168	4.50	1180	4.45							
360.ilbdc	64	31036	0.115	27818	0.128	33016	0.108							
362.fma3d	64	1235	3.08	1225	3.10	1250	3.04							
363.swim	64	1248	3.63	1269	3.57	1228	3.69							
367.imagick	64	1124	6.26	1127	6.24	1126	6.24							
370.mgrid331	64	2045	2.16	1893	2.33	1773	2.49							
371.applu331	64	1278	4.74	1225	4.95	1497	4.05							
372.smithwa	64	536	9.99	546	9.82	549	9.75							
376.kdtree	64	479	9.40	474	9.49	479	9.39							

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 Wed Jul 5 09:44:24 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:      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 Jul 5 09:38
```

```
SPEC is set to: /tmp/spec/1.1
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sdal        ext3  37G   8.0G   27G  23% /
```

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

(End of data from sysinfo program)

General Notes

```
Environment:
ENV_OMP_DYNAMIC=FALSE
ENV_OMP_NESTED=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

You can also download the XML flags source by saving the following link:
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.

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