



SPEC® OMPG2012 Result

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Supermicro
(Test Sponsor: HZDR)

SPECompG_peak2012 = Not Run

Supermicro H8QGi+-F

SPECompG_base2012 = 5.82

OMP2012 license:65A

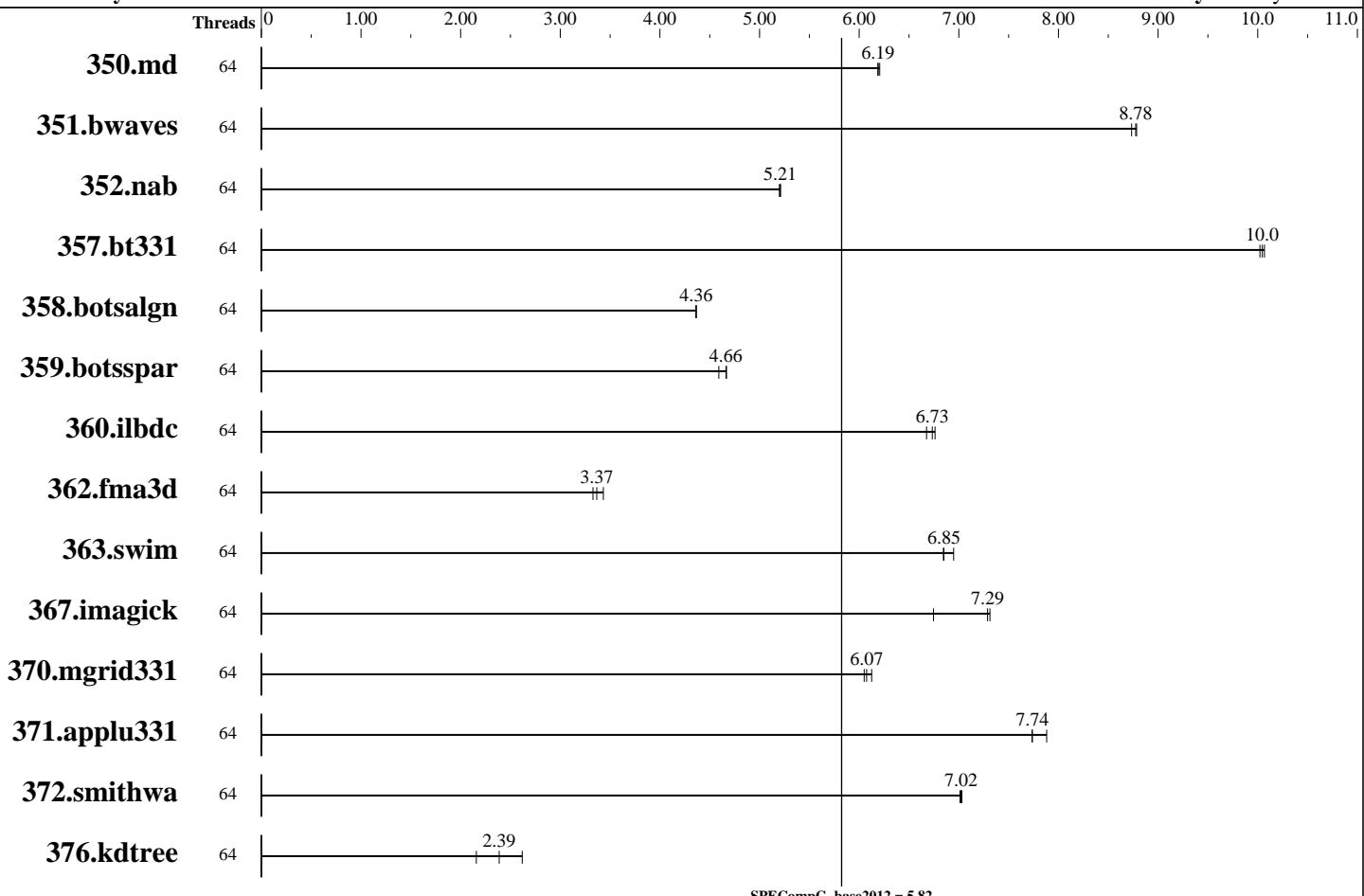
Test date: Jul-2017

Test sponsor: HZDR

Hardware Availability: Nov-2011

Tested by: HZDR

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: 250 GB (1 x 250 GB SATA 7200 rpm)
Other Hardware: --

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

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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	Seconds	Ratio
350.md	64	748	6.19	748	6.19	746	6.21									
351.bwaves	64	516	8.78	519	8.73	516	8.78									
352.nab	64	748	5.20	747	5.21	747	5.21									
357.bt331	64	473	10.0	471	10.1	472	10.0									
358.botsalgn	64	997	4.36	997	4.36	997	4.36									
359.botsspar	64	1126	4.66	1125	4.67	1143	4.59									
360.ilbdc	64	533	6.68	527	6.76	529	6.73									
362.fma3d	64	1107	3.43	1142	3.33	1129	3.37									
363.swim	64	662	6.85	652	6.95	661	6.85									
367.imagick	64	961	7.31	965	7.29	1042	6.75									
370.mgrid331	64	731	6.05	728	6.07	722	6.13									
371.applu331	64	769	7.88	783	7.74	784	7.73									
372.smithwa	64	763	7.02	762	7.03	764	7.01									
376.kdtree	64	2086	2.16	1719	2.62	1885	2.39									

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 laser086 Wed Jul  5 11:59:45 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 laser086 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 5 07:52

SPEC is set to: /tmp/spec/1.1
Filesystem      Type  Size  Used  Avail Use% Mounted on
/dev/sdal      ext3   37G   8.4G   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
MP_BIND=YES
MPSTKZ=64M
OMP_STACKSIZE=64M
```



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Base Compiler Invocation

C benchmarks:
pgcc

C++ benchmarks:
pgc++

Fortran benchmarks:
pgf90

Base Portability Flags

350.md: -Mfree

Base Optimization Flags

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

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

Fortran benchmarks:
-mp -fast -Mvect=simd:256 -Msmaralloc=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

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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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