## SPEC® OMPG2012 Result

**Supermicro**
(Test Sponsor: HZDR)

### Supermicro H8QGi+-F

**SPECompG peak2012 = Not Run**

**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

<table>
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<tbody>
<tr>
<td>32</td>
<td>0.749</td>
<td>0.688</td>
<td>3.13</td>
<td>4.82</td>
<td>4.11</td>
<td>3.05</td>
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<td>2.94</td>
<td>5.13</td>
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**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
- **Memory:** 256 GB (32 x 8 GB 2Rx4 PC3-10600R-9, ECC)
- **Disk Subsystem:** 500 GB (1 x 500 GB SATA 7200rpm)

**Software**

- **Operating System:** Ubuntu 14.04 LTS
- **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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Continued on next page

Standard Performance Evaluation Corporation  
info@spec.org  
http://www.spec.org/
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(Test Sponsor: HZDR)

Supermicro H8QGi+-F

SPECompG_peak2012 = Not Run
SPECompG_base2012 = 2.47

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

Base Threads Run: 32
Minimum Peak Threads: --
Maximum Peak Threads: --

Results Table

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<th>Ratio</th>
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</table>

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
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/sda1      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
Supermicro
(Test Sponsor: HZDR)
Supermicro H8QGi+-F

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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

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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