**Supermicro**  
*(Test Sponsor: HZDR)*

**Supermicro H8QGi+-F**

**SPECompG_peak2012 = Not Run**  
**SPECompG_base2012 = 6.16**

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**OMPG2012 license:** 65A  
**Test sponsor:** HZDR  
**Tested by:** HZDR

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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  
- **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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**Continued on next page**

Standard Performance Evaluation Corporation  
info@spec.org  
http://www.spec.org/
SPEC OMPG2012 Result

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

SPECompG_peak2012 = Not Run
SPECompG_base2012 = 6.16

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

Base Threads Run: 64
Minimum Peak Threads: --
Maximum Peak Threads: --

Results Table

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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 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/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

Continued on next page
Supermicro
(Test Sponsor: HZDR)

Supermicro H8QGi+-F

SPECompG_peak2012 = Not Run
SPECompG_base2012 = 6.16

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

General Notes

Environment:
KMP_LIBRARY=turnaround
KMP_BLOCKTIME=infinite
KMP_STACKSIZE=190M
OMP_DYNAMIC=FALSE
OMP_NESTED=FALSE

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/sda1 ext3 37G 8.1G 27G 24% /

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

(End of data from sysinfo program)
**Supermicro H8QGi+-F**

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

### Base Compiler Invocation

- **C benchmarks:**  
  - icc

- **C++ benchmarks:**  
  - icpc

- **Fortran benchmarks:**  
  - ifort

### Base Portability Flags

- 350.md: -FR
- 357.bt331: -mcmodel=medium
- 363.swim: -mcmodel=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.

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Report generated on Wed Sep 6 18:01:50 2017 by SPEC OMP2012 PS/PDF formatter v541.  
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