## SPEC® OMPG2012 Result

**Supermicro**  
(Test Sponsor: HZDR)  

**Supermicro H8QGi+-F**  

**SPECompG_peak2012 = Not Run**  
**SPECompG_base2012 = 3.83**

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**SPECompG_base2012 = 3.83**

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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:** None

### 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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## Results Table

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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 (097295389cf6073c3b03fa376740a5)  
running on laser082 Fri Aug 4 06:49:36 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 = 3.83

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

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 laser082 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 Apr 5 08:55
SPEC is set to: /tmp/spec/1.1
Filesystem Type Size Used Avail Use% Mounted on
/dev/sda1 ext3 37G 8.2G 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:
pgcc

Continued on next page
Supermicro
(Test Sponsor: HZDR)
Supermicro H8QGi+-F

SPECompG_peak2012 = Not Run
SPECompG_base2012 = 3.83

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

Test date: Aug-2017
Hardware Availability: Nov-2011
Software Availability: May-2017

Base Compiler Invocation (Continued)

C++ benchmarks:
   pgc++

Fortran benchmarks:
   pgf90

Base Portability Flags

350.md: -Mfree

Base Optimization Flags

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

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

Fortran benchmarks:
   -mp -fast -Mvect=simd:256 -Msmartalloc=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.

Tested with SPEC OMP2012 v1.1.
Originally published on 6 September 2017.