**Supermicro**
(Test Sponsor: The Portland Group)

**A+ Server 2022G-URF**

| Test date: | Jan-2013 |
| Test sponsor: | The Portland Group |
| Hardware Availability: | Sep-2012 |
| Tested by: | The Portland Group |
| Software Availability: | Jan-2013 |

**OMPG2012 Result**

| SPECompG_peak2012 | 3.17 |
| SPECompG_base2012 | 3.17 |

**Threads**

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**Hardware**

- **CPU Name:** AMD Opteron 6386 SE
- **CPU Characteristics:** AMD Turbo CORE technology up to 3.50 GHz
- **CPU MHz:** 2800
- **CPU MHz Maximum:** 3500
- **FPU:** Integrated
- **CPU(s) enabled:** 32 cores, 2 chips, 16 cores/chip
- **CPU(s) orderable:** 12 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:** 64 GB (8 x 8GB 2Rx4 PC3L-12800R-11, ECC)
- **Disk Subsystem:** 10 x 144GB, RAID, 10000 RPM
- **Other Hardware:** None

**Software**

- **Operating System:** Red Hat Enterprise Linux Server release 6.2 (Santiago) 2.6.32-220.el6.x86_64
- **Compiler:** C/C++/Fortran: Version 13.0 of Intel Composer XE 2013 Build 20120731
- **Auto Parallel:** No
- **File System:** nfs
- **System State:** Run level 3 (multi-user)
- **Base Pointers:** 64-bit
- **Peak Pointers:** 64-bit
- **Other Software:** None

Continued on next page
A+ Server 2022G-URF

SPECompG_peak2012 = 3.17
SPECompG_base2012 = 3.17

OMP2012 license:019
Test sponsor: The Portland Group
Tested by: The Portland Group
Base Threads Run: 32
Minimum Peak Threads: 32
Maximum Peak Threads: 32

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 /scratch/cparrott/OMP2012_v1.0/Docs/sysinfo
$Rev: 395 $ $Date:: 2012-07-25 #$ 8f8c0fe9e19c658963a1e67685e50647
running on piledriver Sun Jan 27 11:38:55 2013

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 6386 SE
  2 "physical id"s (chips)
  32 "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
cache size : 2048 KB

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SPEC OMPG2012 Result
SPECompG_peak2012 = 3.17
SPECompG_base2012 = 3.17

OMP2012 license: 019
Test date: Jan-2013
Test sponsor: The Portland Group
Hardware Availability: Sep-2012
Tested by: The Portland Group
Software Availability: Jan-2013

Platform Notes (Continued)

From /proc/meminfo
MemTotal:       66087492 kB
HugePages_Total:       0
Hugepagesize:       2048 kB

/usr/bin/lsb_release -d
Red Hat Enterprise Linux Server release 6.2 (Santiago)

From /etc/*release*/etc/*version*
redhat-release: Red Hat Enterprise Linux Server release 6.2 (Santiago)
system-release: Red Hat Enterprise Linux Server release 6.2 (Santiago)

uname -a:
Linux piledriver 2.6.32-220.el6.x86_64 #1 SMP Wed Nov 9 08:03:13 EST 2011
x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Nov 9 14:31

SPEC is set to: /scratch/cparrott/OMP2012_v1.0

Filesystem    Type    Size  Used Avail Use% Mounted on
filer01.pgi.net:/vol/vol1/scratch
nfs 727G 126G 601G 18% /proj/scratch

Additional information from dmidecode:

(End of data from sysinfo program)

General Notes

Software Environment:
ulimit -s unlimited

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort
SPEC OMPG2012 Result

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A+ Server 2022G-URF

SPECompG_peak2012 = 3.17
SPECompG_base2012 = 3.17

OMP2012 license: 019
Test sponsor: The Portland Group
Test date: Jan-2013
Tested by: The Portland Group
Hardware Availability: Sep-2012
Software Availability: Jan-2013

Base Portability Flags

350.md: -free
367.imagick: -std=c99

Base Optimization Flags

C benchmarks:
-03 -ipo -openmp -ansi-alias -mcmodel=medium -shared-intel

C++ benchmarks:
-03 -ipo -openmp -ansi-alias -mcmodel=medium -shared-intel

Fortran benchmarks:
-03 -ipo -openmp -ansi-alias -mcmodel=medium -shared-intel

Peak Optimization Flags

C benchmarks:
352.nab: basepeak = yes
358.botsalign: basepeak = yes
359.botsspar: basepeak = yes
367.imagick: basepeak = yes
372.smithwa: basepeak = yes

C++ benchmarks:
376.kdtree: basepeak = yes

Fortran benchmarks:
350.md: basepeak = yes
351.bwaves: basepeak = yes
357.bt331: basepeak = yes
360.ilbdc: basepeak = yes
362.fma3d: basepeak = yes
363.swim: basepeak = yes

Continued on next page
Supermicro
(Test Sponsor: The Portland Group)

A+ Server 2022G-URF

SPECompG_peak2012 = 3.17
SPECompG_base2012 = 3.17

Peak Optimization Flags (Continued)

370.mgrid331: basepeak = yes
371.applu331: basepeak = yes

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:

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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 v1.0.
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