



SPEC® OMPG2012 Result

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Supermicro

(Test Sponsor: The Portland Group)

A+ Server 2022G-URF

SPECompG_peak2012 = 3.17

SPECompG_base2012 = 3.17

OMP2012 license:019

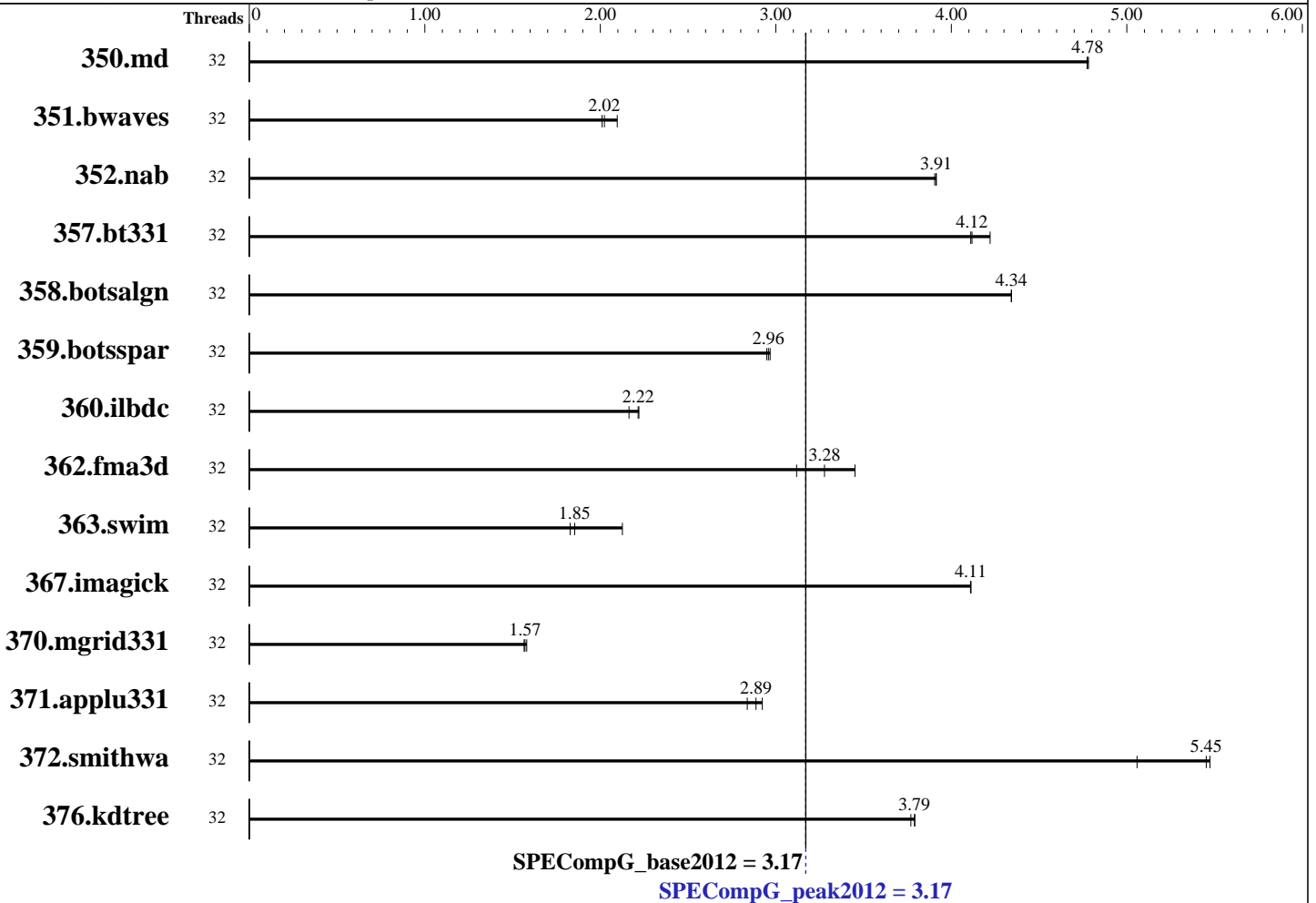
Test sponsor: The Portland Group

Tested by: The Portland Group

Test date: Jan-2013

Hardware Availability: Sep-2012

Software Availability: Jan-2013



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: 1,2 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

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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



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

Results Table

Benchmark	Base						Peak							
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
350.md	32	970	4.77	968	4.78	970	4.78	32	970	4.77	968	4.78	970	4.78
351.bwaves	32	2254	2.01	2239	2.02	2161	2.10	32	2254	2.01	2239	2.02	2161	2.10
352.nab	32	996	3.91	994	3.91	994	3.91	32	996	3.91	994	3.91	994	3.91
357.bt331	32	1123	4.22	1153	4.11	1151	4.12	32	1123	4.22	1153	4.11	1151	4.12
358.botsalgn	32	1002	4.34	1002	4.34	1002	4.34	32	1002	4.34	1002	4.34	1002	4.34
359.botsspar	32	1780	2.95	1769	2.97	1775	2.96	32	1780	2.95	1769	2.97	1775	2.96
360.ilbdc	32	1607	2.22	1645	2.16	1604	2.22	32	1607	2.22	1645	2.16	1604	2.22
362.fma3d	32	1101	3.45	1219	3.12	1159	3.28	32	1101	3.45	1219	3.12	1159	3.28
363.swim	32	2131	2.13	2478	1.83	2443	1.85	32	2131	2.13	2478	1.83	2443	1.85
367.imagick	32	1711	4.11	1710	4.11	1710	4.11	32	1711	4.11	1710	4.11	1710	4.11
370.mgrid331	32	2823	1.57	2796	1.58	2814	1.57	32	2823	1.57	2796	1.58	2814	1.57
371.applu331	32	2073	2.92	2136	2.84	2099	2.89	32	2073	2.92	2136	2.84	2099	2.89
372.smithwa	32	1060	5.06	979	5.47	983	5.45	32	1060	5.06	979	5.47	983	5.45
376.kdtree	32	1194	3.77	1187	3.79	1187	3.79	32	1194	3.77	1187	3.79	1187	3.79

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 $# 8f8c0fe9e19c658963ale67685e50647
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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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)
  system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server

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/voll/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

```



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Base Portability Flags

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

Base Optimization Flags

C benchmarks:

-O3 -ipol -openmp -ansi-alias -mcmmodel=medium -shared-intel

C++ benchmarks:

-O3 -ipol -openmp -ansi-alias -mcmmodel=medium -shared-intel

Fortran benchmarks:

-O3 -ipol -openmp -ansi-alias -mcmmodel=medium -shared-intel

Peak Optimization Flags

C benchmarks:

352.nab: basepeak = yes

358.botsalgn: 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

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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

<http://www.spec.org/omp2012/flags/SGI-OMP2012-ic13.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/omp2012/flags/SGI-OMP2012-ic13.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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