SPEC® OMPG2012 Result

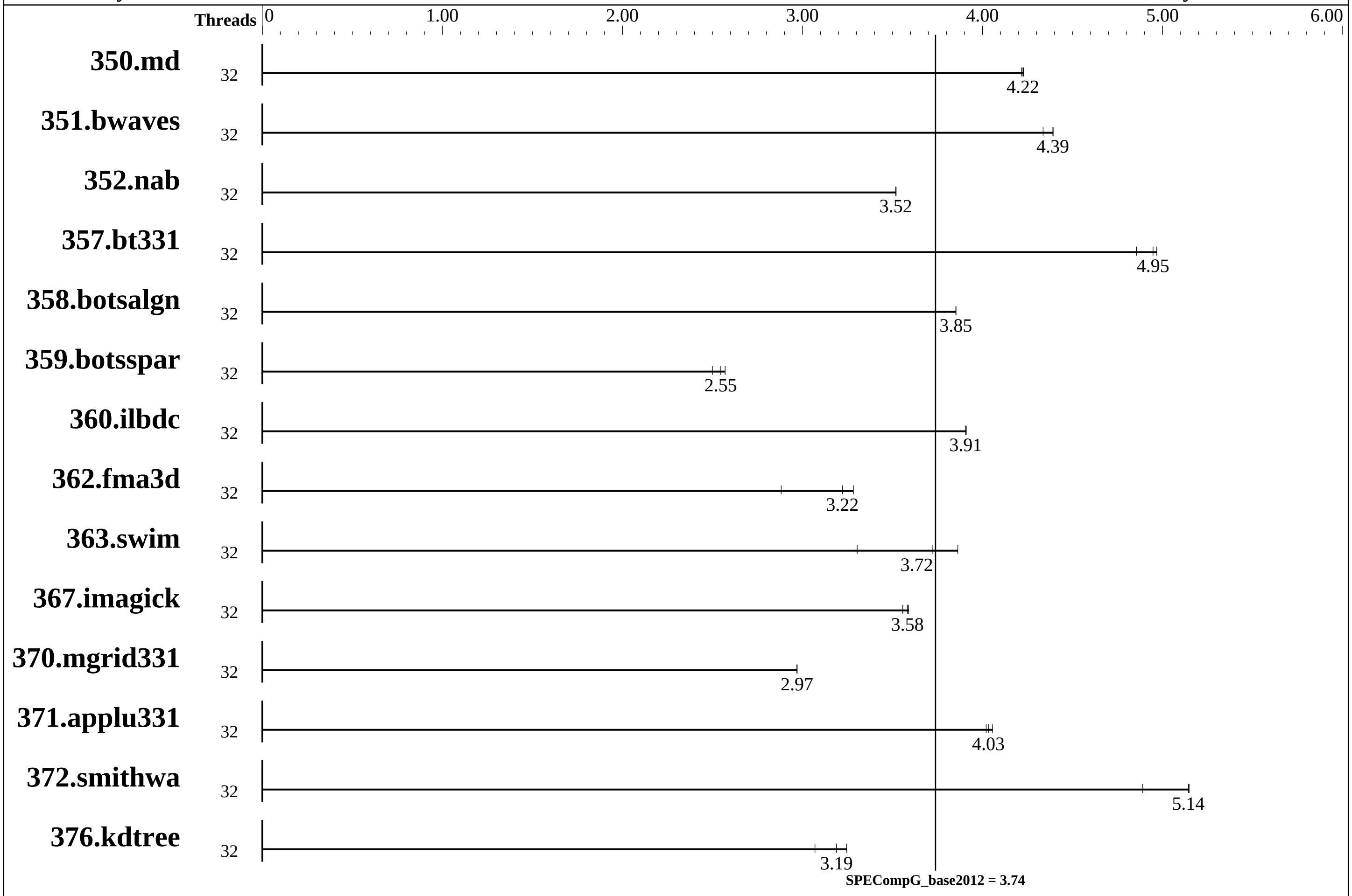
Supermicro
(Test Sponsor: Intel)

Supermicro H8DGU-LN4

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 3.74

OMP2012 license: 13		**Test date:**	Feb-2013
Test sponsor:	Intel	**Hardware Availability:**	Sep-2012
Tested by:	Intel	**Software Availability:**	Jan-2013



Hardware

CPU Name:	AMD Opteron 6282 SE
CPU Characteristics:	
CPU MHz:	2600
CPU MHz Maximum:	3300
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:	96 GB (16 x 8 GB 2Rx4 PC3-10600R-9, ECC)
Disk Subsystem:	Panasas ActiveStor 3050 Fileserver 64 disks, 250GB/disk, 16TB total, 4 Shelves connected via 1Gbps Ethernet
Other Hardware:	None

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Software

Operating System:	Red Hat Enterprise Linux Server release 6.1 (Santiago) 2.6.32-131.0.15.el6.x86_64.crt.1
Compiler:	C/C++/Fortran: Version 13.1.0.146 of Intel Composer XE for Linux Build 20130121
Auto Parallel:	No
File System:	panfs
System State:	Default
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	None

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

Results Table

	Base							Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
350.md	32	1095	4.23	**1096**	**4.22**	1098	4.22							
351.bwaves	32	1045	4.34	**1032**	**4.39**	1031	4.39							
352.nab	32	1105	3.52	**1106**	**3.52**	1106	3.52							
357.bt331	32	976	4.86	**958**	**4.95**	954	4.97							
358.botsalgn	32	1129	3.85	**1129**	**3.85**	1129	3.85							
359.botsspar	32	2042	2.57	2100	2.50	**2062**	**2.55**							
360.ilbdc	32	911	3.91	**911**	**3.91**	911	3.91							
362.fma3d	32	**1179**	**3.22**	1319	2.88	1158	3.28							
363.swim	32	1371	3.30	1173	3.86	**1218**	**3.72**							
367.imagick	32	**1962**	**3.58**	1976	3.56	1958	3.59							
370.mgrid331	32	1489	2.97	1488	2.97	**1489**	**2.97**							
371.applu331	32	1507	4.02	**1503**	**4.03**	1494	4.06							
372.smithwa	32	**1042**	**5.14**	1096	4.89	1041	5.15							
376.kdtree	32	1386	3.25	**1411**	**3.19**	1466	3.07							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Platform Notes

```
Sysinfo program /panfs/panfs2/home1/pshelepu/SpecOMP/v-1.0-r1/Docs/sysinfo
$Rev: 395 $ $Date:: 2012-07-25 #$ 8f8c0fe9e19c658963a1e67685e50647
running on ebne11 Wed Feb 13 03:43:49 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 6282 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:       99183960 kB
   HugePages_Total:       0
   Hugepagesize:       2048 kB

From /etc/*release* /etc/*version*
   redhat-release: Red Hat Enterprise Linux Server release 6.1 (Santiago)
   system-release: Red Hat Enterprise Linux Server release 6.1 (Santiago)
   system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server

uname -a:
   Linux ebne11 2.6.32-131.0.15.el6.x86_64.crt.1 #3 SMP Fri May 20 16:57:43 PDT
   2011 x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Feb 11 11:23

SPEC is set to: /panfs/panfs2/home1/pshelepu/SpecOMP/v-1.0-r1
   Filesystem     Type    Size  Used Avail Use% Mounted on
   panfs://36.107.212.1/home1
                  panfs     14T  6.9T  6.9T  50% /panfs/panfs2/home1

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

(End of data from sysinfo program)
```

General Notes

```
========================================================================
BIOS American Megatrends Inc. Version: 2.0a Release Date: 11/08/2011
BIOS settings state: Default Optimal
========================================================================
General Notes and Enviroment variables
  ENV_KMP_LIBRARY=turnaround
  ENV_KMP_STACKSIZE=200M
  ENV_KMP_BLOCKTIME=infinite
  ENV_OMP_DYNAMIC=FALSE
  ENV_KMP_AFFINITY=compact,0
```

Base Compiler Invocation

C benchmarks:
    icc

C++ benchmarks:
    icpc

Fortran benchmarks:
    ifort

Base Portability Flags

350.md: `-mcmodel=medium`(*) `-free`(*)
351.bwaves: `-mcmodel=medium`(*)
352.nab: `-std=c99`(*) `-mcmodel=medium`(*)
357.bt331: `-mcmodel=medium`(*)
358.botsalgn: `-std=c99`(*) `-mcmodel=medium`(*)
359.botsspar: `-std=c99`(*) `-mcmodel=medium`(*)
360.ilbdc: `-mcmodel=medium`(*)
362.fma3d: `-mcmodel=medium`(*)
363.swim: `-mcmodel=medium`(*)
367.imagick: `-std=c99`(*) `-mcmodel=medium`(*)
370.mgrid331: `-mcmodel=medium`(*)
371.applu331: `-mcmodel=medium`(*)
372.smithwa: `-std=c99`(*) `-mcmodel=medium`(*)
376.kdtree: `-std=c++0x`(*) `-mcmodel=medium`(*)

(*) Indicates a portability flag that was found in a non-portability variable.

Base Optimization Flags

C benchmarks:
`-O3 -ipo -openmp -ansi_alias`

C++ benchmarks:
`-O3 -ipo -openmp -ansi_alias`

Fortran benchmarks:
`-O3 -ipo -openmp`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/omp2012/flags/Intel-ic13.0-linux64.20130306.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/omp2012/flags/Intel-ic13.0-linux64.20130306.xml`

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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