SPEC® OMPG2012 Result
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Supermicro
(Test Sponsor: Intel)

Supermicro H8DGU-LN4

SPECompG_peak2012 = Not Run

SPECompG_base2012 =   3.74

OMP2012 license: 13
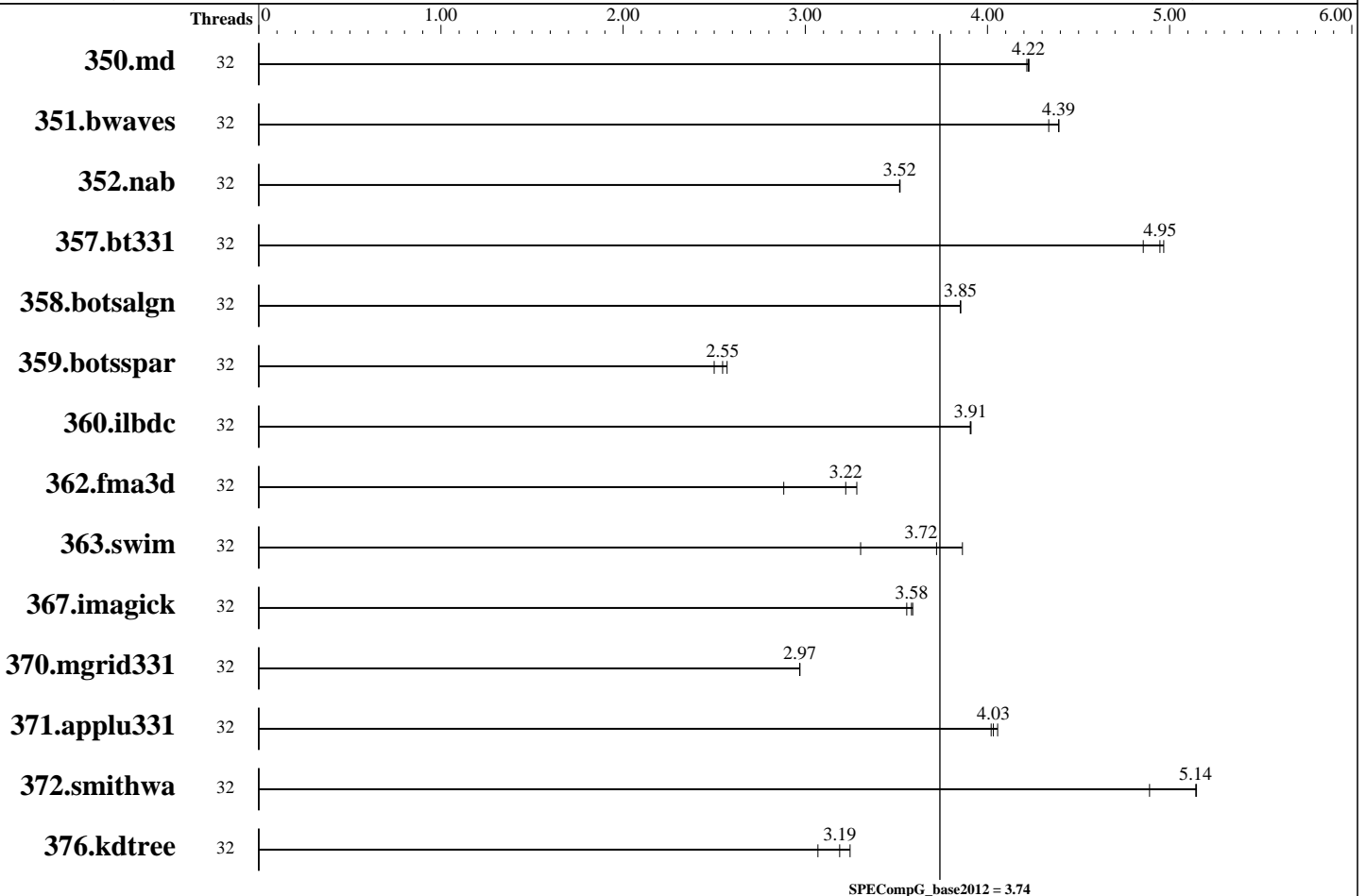**Test sponsor:** Intel
Tested by: Intel

Test date: Feb-2013
Hardware Availability: Sep-2012
Software Availability: Jan-2013

Threads		
350.md	32	4.22
351.bwaves	32	4.39
352.nab	32	3.52
357.bt331	32	4.95
358.botsalgn	32	3.85
359.botsspar	32	2.55
360.ilbdc	32	3.91
362.fma3d	32	3.22
363.swim	32	3.72
367.imagick	32	3.58
370.mgrid331	32	2.97
371.applu331	32	4.03
372.smithwa	32	5.14
376.kdtree	32	3.19

SPECompG_base2012 = 3.74

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

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

Benchmark	Base							Peak						
	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

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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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