SPEC® OMPG2012 Result

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HP

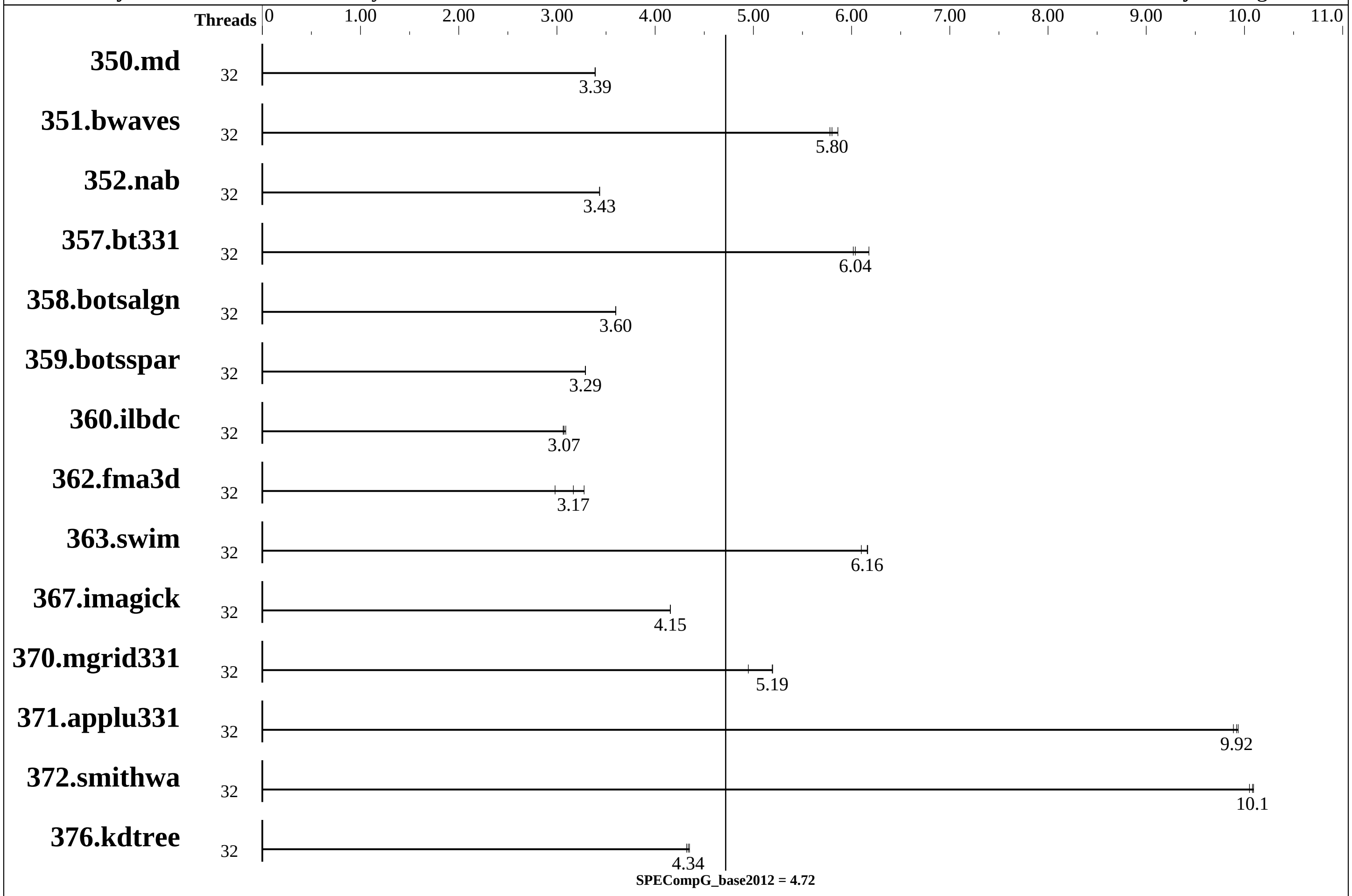
(Test Sponsor: Indiana University)

HP Proliant DL580 G7 Server Series, Intel Xeon L7555, 1.87 GHz

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 4.72

OMP2012 license: 3440A		**Test date:**	Oct-2012
Test sponsor:	Indiana University	**Hardware Availability:**	Jun-2010
Tested by:	Indiana University	**Software Availability:**	Aug-2012



Hardware

CPU Name:	Intel Xeon L7555
CPU Characteristics:	Intel Turbo Boost Technology up to 2.533GHz, Hyper-Threading off
CPU MHz:	1866
CPU MHz Maximum:	2533
FPU:	Integrated
CPU(s) enabled:	32 cores, 4 chips, 8 cores/chip
CPU(s) orderable:	1-4 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core
L3 Cache:	24 MB I+D on chip per chip, 24 MB shared / 8 cores
Other Cache:	None
Memory:	512 GB (64 x 8 GB 2Rx4 PC3-10600R-9, ECC)
Disk Subsystem:	Two 500 GB 7200 RPM 2.5" SAS hard drives, in RAID 1 mirror
Other Hardware:	None

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Software

Operating System:	RHEL6.3 (x86_64) 2.6.32-279.5.2.el6 Kernel 2.6.32-279.5.2.el6 2.6.32-279.9.1.el6.x86_64
Compiler:	C/C++/Fortran: Version 13.0.0.079 of Intel Composer XE 2013 for Linux Build 20120731
Auto Parallel:	No
File System:	NFSv3 (IBM N5500 NAS) over Gb ethernet
System State:	Multi-user, run level 3
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	1365	3.39	1367	3.39	**1365**	**3.39**							
351.bwaves	32	**781**	**5.80**	784	5.78	773	5.86							
352.nab	32	1132	3.44	**1133**	**3.43**	1133	3.43							
357.bt331	32	767	6.18	788	6.02	**785**	**6.04**							
358.botsalgn	32	1209	3.60	**1209**	**3.60**	1209	3.60							
359.botsspar	32	1597	3.29	1595	3.29	**1596**	**3.29**							
360.ilbdc	32	1152	3.09	1162	3.06	**1159**	**3.07**							
362.fma3d	32	1275	2.98	**1200**	**3.17**	1160	3.28							
363.swim	32	743	6.10	**736**	**6.16**	735	6.16							
367.imagick	32	**1692**	**4.15**	1693	4.15	1692	4.15							
370.mgrid331	32	851	5.20	893	4.95	**851**	**5.19**							
371.applu331	32	**611**	**9.92**	610	9.94	613	9.89							
372.smithwa	32	533	10.1	531	10.1	**532**	**10.1**							
376.kdtree	32	**1038**	**4.34**	1042	4.32	1035	4.35							

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

Platform Notes

```
Sysinfo program /N/soft/mason/omp2012-021/Docs/sysinfo
$Rev: 395 $ $Date:: 2012-07-25 #$ 8f8c0fe9e19c658963a1e67685e50647
running on c13 Wed Oct  3 13:30:14 2012

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 : Intel(R) Xeon(R) CPU L7555 @ 1.87GHz
      4 "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  : 8
      physical 0: cores 0 1 2 3 8 9 10 11
      physical 1: cores 0 1 2 3 8 9 10 11
      physical 2: cores 0 1 2 3 8 9 10 11
      physical 3: cores 0 1 2 3 8 9 10 11
```

Continued on next page

Platform Notes (Continued)

```
   cache size : 24576 KB

From /proc/meminfo
   MemTotal:       529427940 kB
   HugePages_Total:       0
   Hugepagesize:       2048 kB

From /etc/*release* /etc/*version*
   redhat-release: Red Hat Enterprise Linux Server release 6.3 (Santiago)
   system-release: Red Hat Enterprise Linux Server release 6.3 (Santiago)
   system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server

uname -a:
   Linux c13 2.6.32-279.9.1.el6.x86_64 #1 SMP Fri Aug 31 09:04:24 EDT 2012
   x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Oct 2 14:02

SPEC is set to: /N/soft/mason/omp2012-021
   Filesystem    Type    Size  Used Avail Use% Mounted on
   bl-nas2:/vol/soft
                  nfs    1.2T  791G  410G  66% /N/soft

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

(End of data from sysinfo program)
```

General Notes

```
Environment:
    KMP_AFFINITY=disabled
    KMP_SCHEDULE=static,balanced
    KMP_BLOCKTIME=infinite
    KMP_LIBRARY=throughput
    KMP_STACKSIZE=31m
    OMP_NESTED=FALSE
    OMP_DYNAMIC=FALSE
    OMP_NUM_THREADS=32
```

Base Compiler Invocation

C benchmarks:
    icc

C++ benchmarks:
    icpc

Fortran benchmarks:
    ifort

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
`-O3 -xSSE4.2 -ansi-alias -no-prec-div -openmp -shared-intel -mcmodel=medium -ipo`

C++ benchmarks:
`-O3 -xSSE4.2 -ansi-alias -no-prec-div -openmp -shared-intel -mcmodel=medium -ipo`

Fortran benchmarks:
`-O3 -xSSE4.2 -no-prec-div -openmp -shared-intel -mcmodel=medium -ipo`

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

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