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
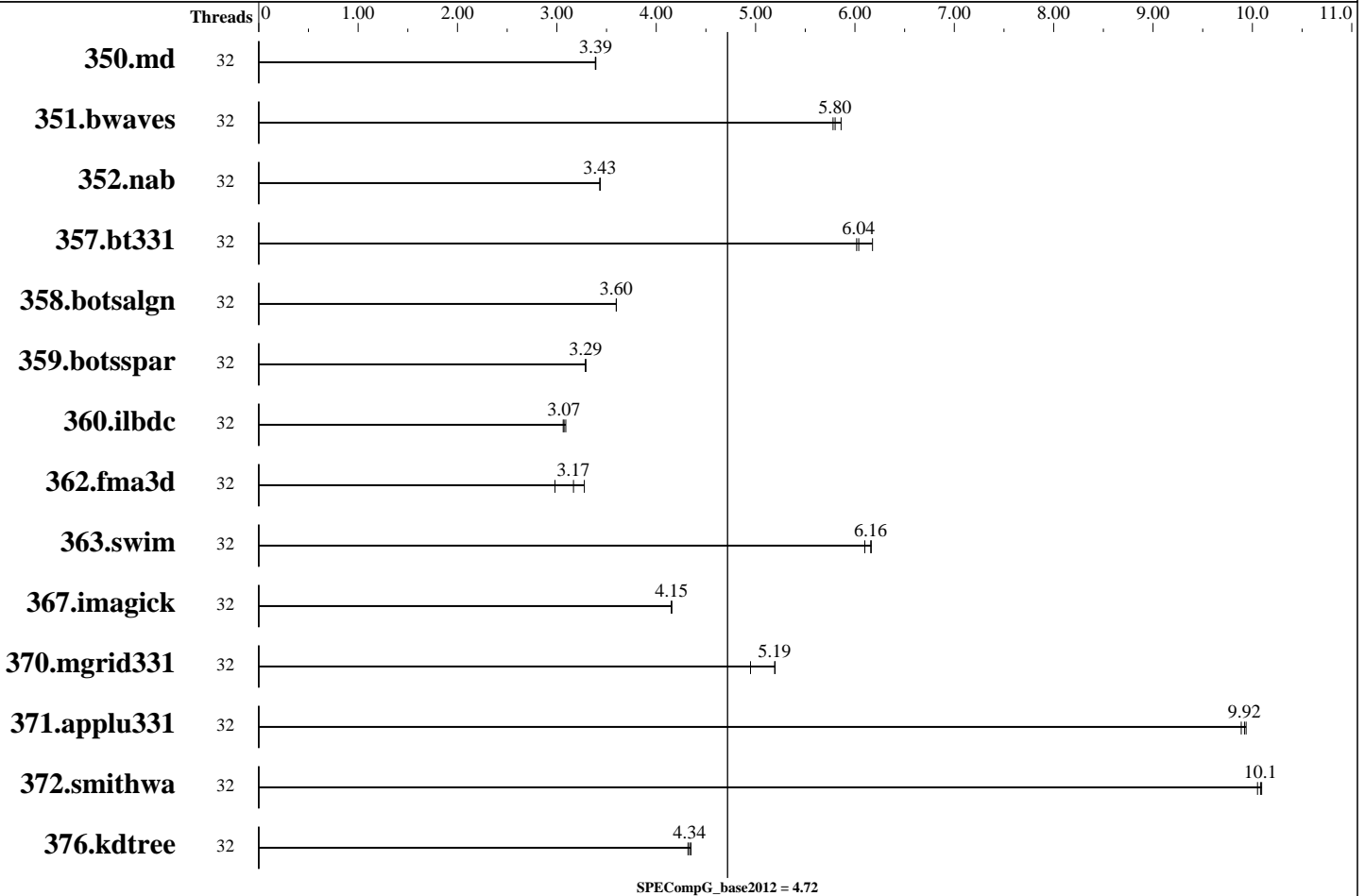
SPECompG_base2012 = 4.72

OMP2012 license: 3440A
Test sponsor: Indiana University
Tested by: Indiana University

Test date: Oct-2012
Hardware Availability: Jun-2010
Software Availability: Aug-2012

Threads		Result
350.md	32	3.39
351.bwaves	32	5.80
352.nab	32	3.43
357.bt331	32	6.04
358.botsalgn	32	3.60
359.botsspar	32	3.29
360.ilbdc	32	3.07
362.fma3d	32	3.17
363.swim	32	6.16
367.imagick	32	4.15
370.mgrid331	32	5.19
371.applu331	32	9.92
372.smithwa	32	10.1
376.kdtree	32	4.34

SPECompG_base2012 = 4.72

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

Continued on next page

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
```

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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

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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 other inquiries, please contact webmaster@spec.org.

Tested with SPEC OMP2012 v21.
Report generated on Tue Jul 22 13:35:34 2014 by SPEC OMP2012 PS/PDF formatter v541.
Originally published on 16 October 2012.