



SPEC® OMPG2012 Result

Copyright 2012-2014 Standard Performance Evaluation Corporation

SGI

SPECompG_peak2012 = Not Run

SGI UV20 (Intel Xeon E5-4650, 2.7 GHz)

SPECompG_base2012 = 7.90

OMP2012 license:14

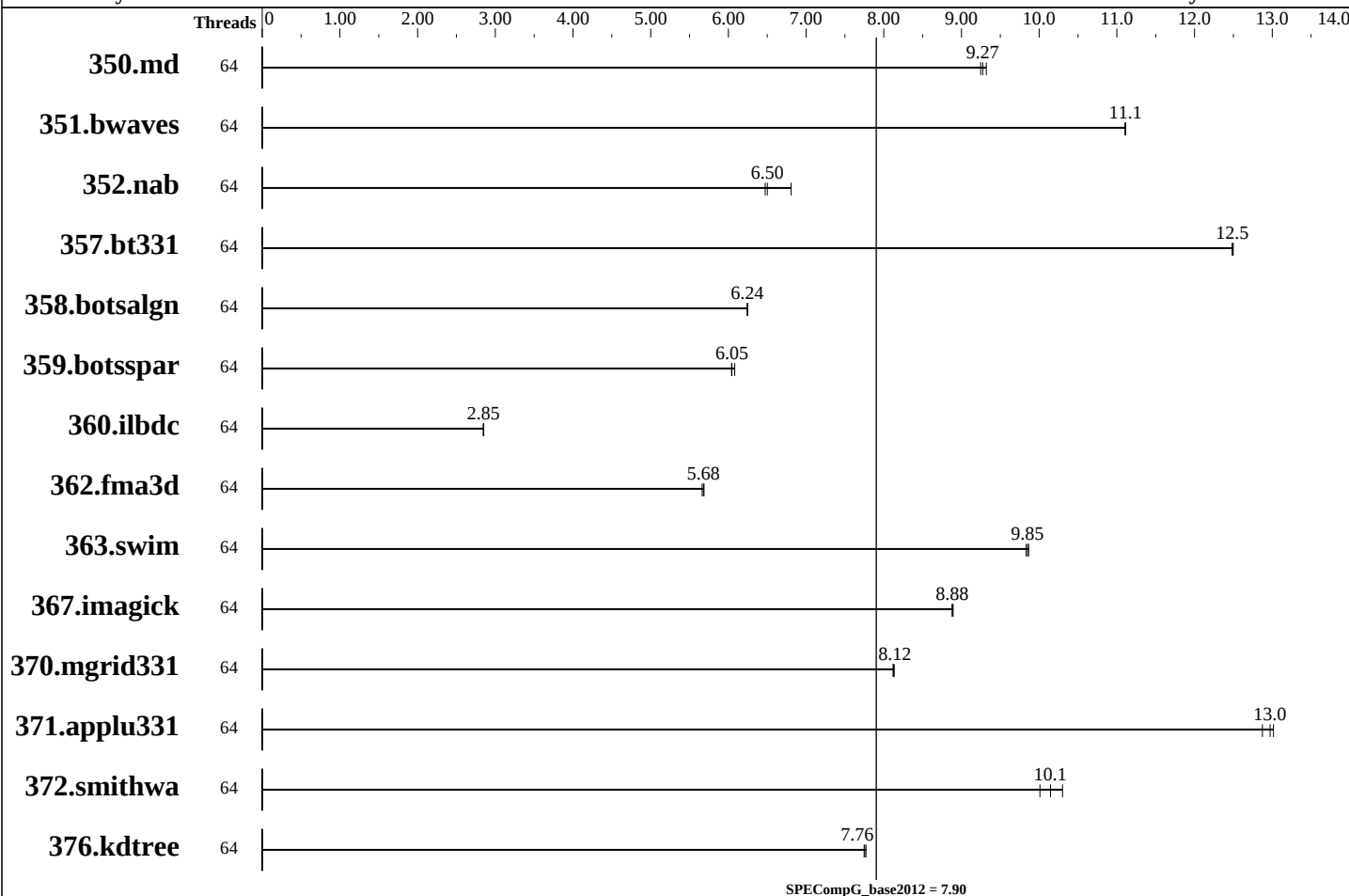
Test sponsor: SGI

Tested by: SGI

Test date: Mar-2013

Hardware Availability: Nov-2012

Software Availability: Jan-2013



Hardware

CPU Name: Intel Xeon E5-4650
CPU Characteristics: Intel Turbo Boost Technology up to 3.30 GHz
CPU MHz: 2700
CPU MHz Maximum: 3300
FPU: Integrated
CPU(s) enabled: 32 cores, 4 chips, 8 cores/chip, 2 threads/core
CPU(s) orderable: 2-4 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: 20 MB I+D on chip per chip
Other Cache: None
Memory: 512 GB (32 x 16 GB 2Rx4 PC3-12800R-11, ECC)
Disk Subsystem: 3.6 TB RAID 0
6 x 600 GB SATA (Intel SSD 320, 2.5in SATA 3Gb/s, MLC)
Other Hardware: None

Continued on next page

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64) SP2
Kernel 3.0.42-0.7-default #1 SMP
Compiler: C/C++/Fortran: Version 13.1.0.146 of Intel
Composer XE 2013, Build 20130121
Auto Parallel: No
File System: xfs
System State: Run level 3 (Multi-user)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: SGI Accelerate 1.5, Build 707r85.sles11sp2-1302142007
SGI Foundation Software 2.7, Build 707r85.sles11sp2-1302142007



SPEC OMPG2012 Result

Copyright 2012-2014 Standard Performance Evaluation Corporation

SGI

SPECompG_peak2012 = Not Run

SGI UV20 (Intel Xeon E5-4650, 2.7 GHz)

SPECompG_base2012 = 7.90

OMP2012 license:14

Test sponsor: SGI

Tested by: SGI

Test date: Mar-2013

Hardware Availability: Nov-2012

Software Availability: Jan-2013

Base Threads Run: 64

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	64	497	9.32	<u>499</u>	<u>9.27</u>	501	9.25							
351.bwaves	64	408	11.1	408	11.1	408	11.1							
352.nab	64	571	6.81	601	6.47	598	6.50							
357.bt331	64	380	12.5	379	12.5	380	12.5							
358.botsalgn	64	697	6.24	697	6.24	697	6.24							
359.botsspar	64	868	6.05	863	6.08	869	6.04							
360.ilbdc	64	1249	2.85	1252	2.84	1249	2.85							
362.fma3d	64	671	5.66	668	5.69	669	5.68							
363.swim	64	460	9.85	459	9.86	461	9.83							
367.imagick	64	791	8.89	791	8.88	792	8.88							
370.mgrid331	64	544	8.12	544	8.12	543	8.13							
371.applu331	64	467	13.0	466	13.0	471	12.9							
372.smithwa	64	520	10.3	528	10.1	535	10.0							
376.kdtree	64	580	7.76	579	7.77	581	7.75							

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

Operating System Notes

```

export KMP_AFFINITY=compact,0
export KMP_STACKSIZE=200M
export KMP_LIBRARY=turnaround
export KMP_BLOCKTIME=infinite
export OMP_DYNAMIC=FALSE
limit -s unlimited

```

Hyperthreading is enabled.

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort



SPEC OMPG2012 Result

Copyright 2012-2014 Standard Performance Evaluation Corporation

SGI

SPECompG_peak2012 = Not Run

SGI UV20 (Intel Xeon E5-4650, 2.7 GHz)

SPECompG_base2012 = 7.90

OMP2012 license:14

Test sponsor: SGI

Tested by: SGI

Test date: Mar-2013

Hardware Availability: Nov-2012

Software Availability: Jan-2013

Base Portability Flags

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

Base Optimization Flags

C benchmarks:

-O3 -xAVX -ipo1 -openmp -ansi-alias -mmodel=medium -shared-intel

C++ benchmarks:

-O3 -xAVX -ipo1 -openmp -mmodel=medium -shared-intel

Fortran benchmarks:

-O3 -xAVX -ipo1 -openmp -mmodel=medium -shared-intel

The flags file that was used to format this result can be browsed at

<http://www.spec.org/omp2012/flags/SGI-OMP2012-ic13.20130403.html>

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

<http://www.spec.org/omp2012/flags/SGI-OMP2012-ic13.20130403.xml>

SPEC is a registered trademark of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC OMP2012 v1.0.
Report generated on Tue Jul 22 13:36:51 2014 by SPEC OMP2012 PS/PDF formatter v541.
Originally published on 3 April 2013.