



SPEC® OMPG2012 Result

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SGI

SPECompG_peak2012 = Not Run

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

SPECompG_base2012 = 7.90

OMP2012 license:14

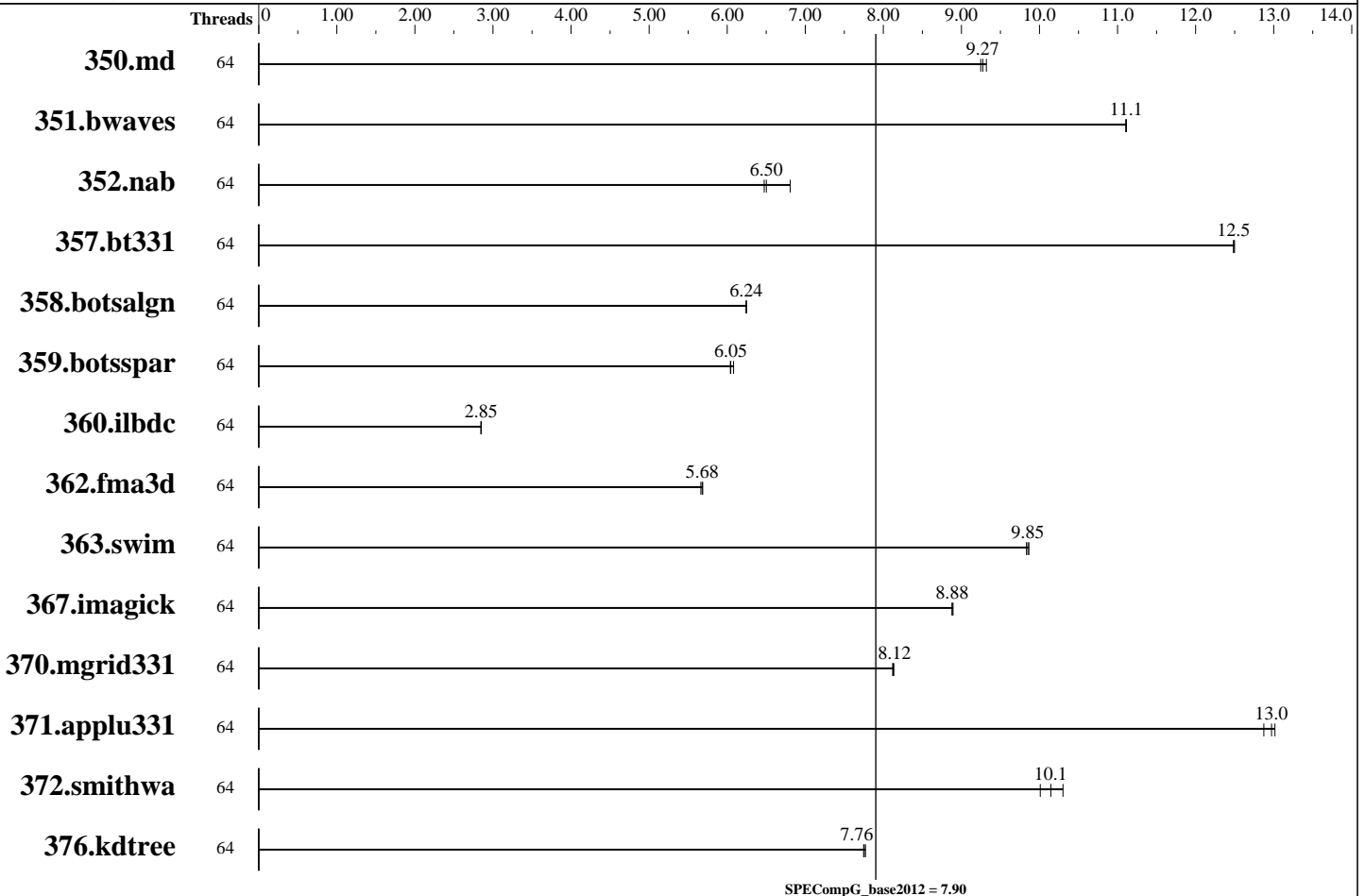
Test sponsor: SGI

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

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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



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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



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Base Portability Flags

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

Base Optimization Flags

C benchmarks:

-O3 -xAVX -ipol -openmp -ansi-alias -mcmmodel=medium -shared-intel

C++ benchmarks:

-O3 -xAVX -ipol -openmp -mcmmodel=medium -shared-intel

Fortran benchmarks:

-O3 -xAVX -ipol -openmp -mcmmodel=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>

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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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