



SPEC® OMPG2012 Result

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SGI

SPECompG_peak2012 = Not Run

SGI UV1000 (Intel Xeon E7-8837, 2.66GHz)

SPECompG_base2012 = 42.5

OMP2012 license:14

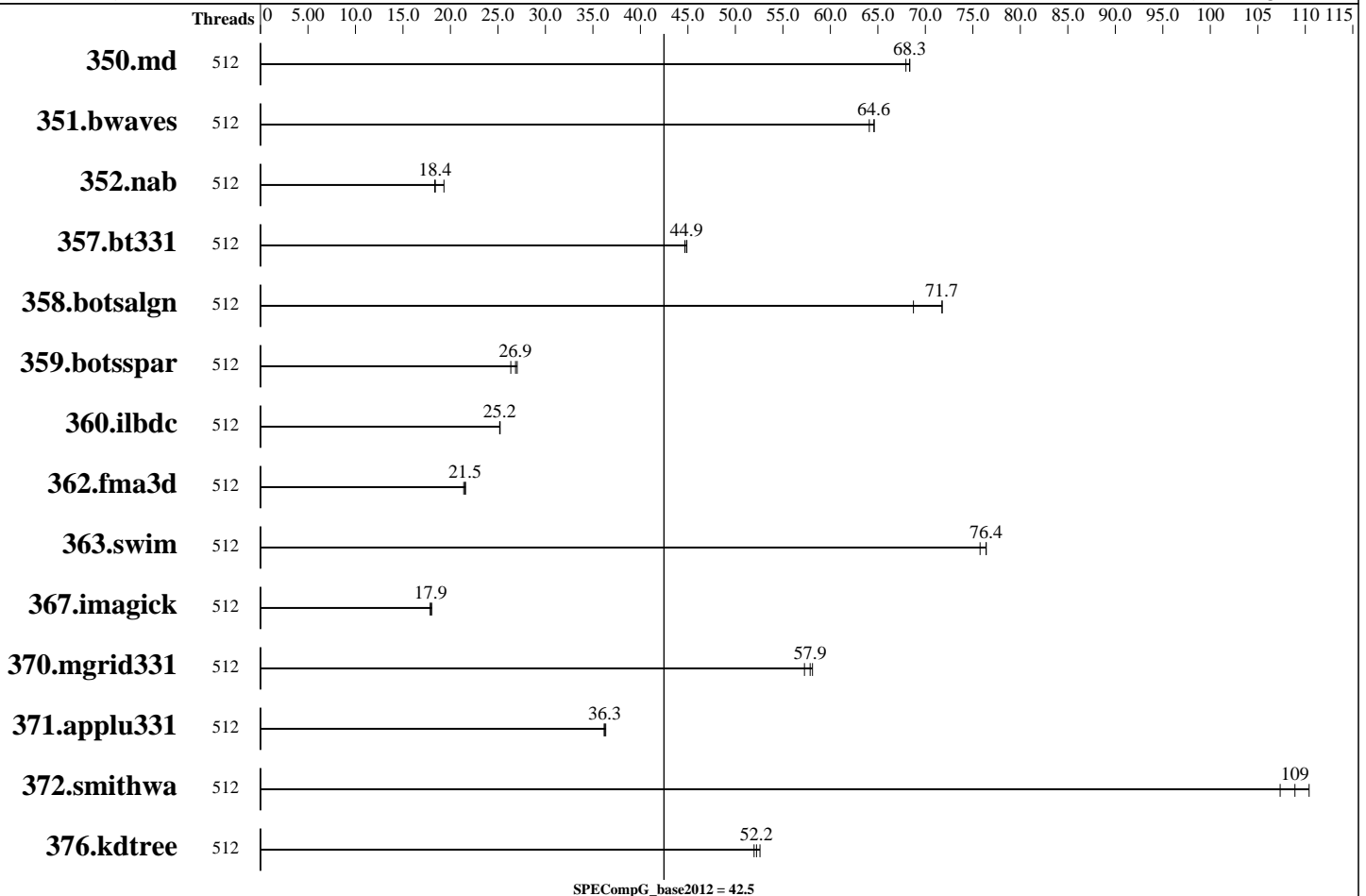
Test sponsor: SGI

Tested by: SGI

Test date: Sep-2012

Hardware Availability: Apr-2011

Software Availability: Aug-2012



Hardware

CPU Name: Intel Xeon E7-8837
 CPU Characteristics: Intel Turbo Boost Technology up to 2.80 GHz
 CPU MHz: 2667
 CPU MHz Maximum: 2800
 FPU: Integrated
 CPU(s) enabled: 512 cores, 64 chips, 8 cores/chip
 CPU(s) orderable: 2-256 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
 Other Cache: None
 Memory: 2 TB (512 x 4 GB 4Rx8 PC3-8500R-7, ECC)
 Disk Subsystem: 10 x 1 TB SAS (Seagate Constellation ES, 7200RPM)
 Other Hardware: Routed quad-plane fat tree topology
 Base Threads Run: 512
 Minimum Peak Threads: --

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Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64) SP1 2.6.32.46-0.3.1.3592.0.PTF-default
 Compiler: C/C++/Fortran: Version 13.0 of Intel Composer XE 2013 Build 20120731
 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-release: SGI Accelerate 1.3, Build 705rp1.sles11-1110302109
 sgi-foundation-release: SGI Foundation Software 2.5, Build 705rp1.sles11-1110302109



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Maximum Peak Threads: --

Results Table

Benchmark	Base								Peak							
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
350.md	512	67.7	68.3	68.1	68.0	67.7	68.4									
351.bwaves	512	70.7	64.1	70.1	64.6	70.1	64.6									
352.nab	512	212	18.3	211	18.4	201	19.3									
357.bt331	512	106	44.9	106	44.9	106	44.7									
358.botsalgn	512	60.6	71.8	60.6	71.7	63.3	68.7									
359.botsspar	512	194	27.0	195	26.9	199	26.4									
360.ilbdc	512	141	25.2	141	25.2	141	25.2									
362.fma3d	512	178	21.4	176	21.5	176	21.6									
363.swim	512	59.3	76.4	59.8	75.8	59.3	76.4									
367.imagick	512	390	18.0	392	17.9	393	17.9									
370.mgrid331	512	76.1	58.1	77.2	57.3	76.4	57.9									
371.applu331	512	167	36.3	167	36.3	167	36.2									
372.smithwa	512	49.9	107	48.5	110	49.2	109									
376.kdtree	512	85.6	52.6	86.2	52.2	86.6	52.0									

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

Submit Notes

The config file option 'submit' was used.

General Notes

Software Environment:

```

export KMP_AFFINITY=disabled
export KMP_STACKSIZE=200M
export KMP_SCHEDULE=static,balanced
export OMP_DYNAMIC=FALSE
limit -s unlimited

```

For all benchmarks threads were bound to cores using the following submit command:

```
dplace -x2 $command
```

This binds threads in order of creation, beginning with the master thread on logical cpu 0, the first slave thread on logical cpu 1, and so on. The -x2 flag instructs dplace to skip placement of the lightweight OpenMP monitor thread, which is created prior to the slave threads.



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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 -ipo1 -openmp -ansi-alias -mcmmodel=medium
-shared-intel

C++ benchmarks:
-O3 -xSSE4.2 -ipo1 -openmp -ansi-alias -mcmmodel=medium
-shared-intel

Fortran benchmarks:
-O3 -xSSE4.2 -ipo1 -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.html>

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

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