



SPEC® OMPG2012 Result

Copyright 2012-2014 Standard Performance Evaluation Corporation

SGI

SPECompG_peak2012 = Not Run

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

SPECompG_base2012 = 17.7

OMP2012 license:14

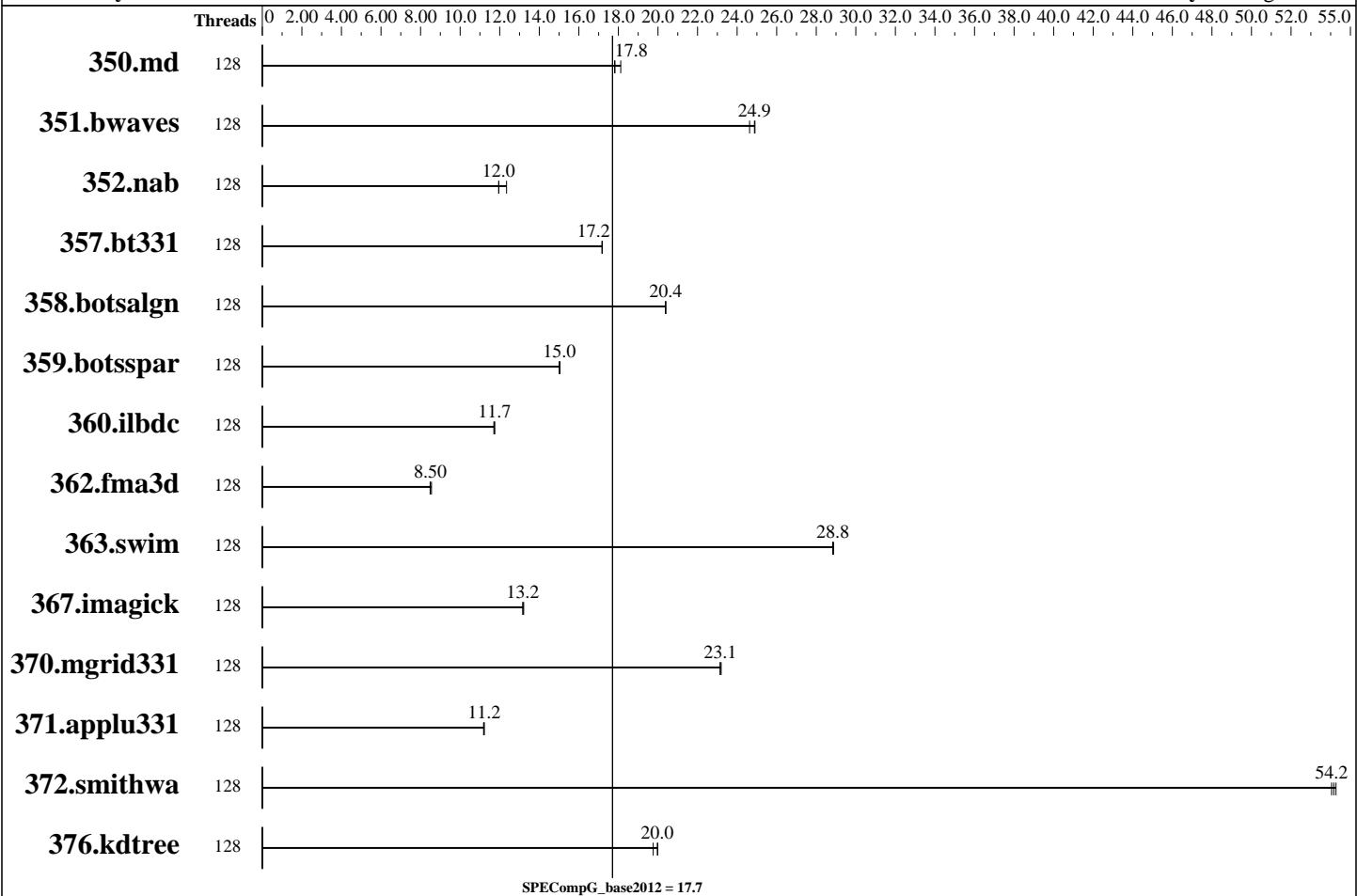
Test date: Sep-2012

Test sponsor: SGI

Hardware Availability: Apr-2011

Tested by: SGI

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: 128 cores, 16 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: 512 GB (128 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: 128
Minimum Peak Threads: --

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

Continued on next page



SPEC OMPG2012 Result

Copyright 2012-2014 Standard Performance Evaluation Corporation

SGI

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

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 17.7

OMP2012 license:14

Test date: Sep-2012

Test sponsor: SGI

Hardware Availability: Apr-2011

Tested by: SGI

Software Availability: Aug-2012

Maximum Peak Threads: --

Results Table

Benchmark	Base								Peak							
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
350.md	128	260	17.8	256	18.1	260	17.8									
351.bwaves	128	182	24.9	182	24.9	184	24.6									
352.nab	128	325	12.0	325	12.0	315	12.3									
357.bt331	128	276	17.2	276	17.2	276	17.2									
358.botsalgn	128	213	20.4	213	20.4	213	20.4									
359.botsspar	128	349	15.0	350	15.0	349	15.0									
360.ilbdc	128	304	11.7	303	11.7	303	11.7									
362.fma3d	128	444	8.55	448	8.48	447	8.50									
363.swim	128	157	28.8	157	28.9	157	28.8									
367.imagick	128	534	13.2	532	13.2	534	13.2									
370.mgrid331	128	191	23.2	191	23.1	191	23.1									
371.applu331	128	540	11.2	542	11.2	540	11.2									
372.smithwa	128	98.8	54.3	99.2	54.0	99.0	54.2									
376.kdtree	128	228	19.8	225	20.0	225	20.0									

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.



SPEC OMPG2012 Result

Copyright 2012-2014 Standard Performance Evaluation Corporation

SGI

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

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 17.7

OMP2012 license:14

Test sponsor: SGI

Tested by: SGI

Test date: Sep-2012

Hardware Availability: Apr-2011

Software Availability: Aug-2012

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 -mcmodel=medium
-shared-intel

C++ benchmarks:

-O3 -xSSE4.2 -ipo1 -openmp -ansi-alias -mcmodel=medium
-shared-intel

Fortran benchmarks:

-O3 -xSSE4.2 -ipo1 -openmp -mcmodel=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>

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 v21.

Report generated on Tue Jul 22 13:35:40 2014 by SPEC OMP2012 PS/PDF formatter v541.

Originally published on 16 October 2012.