SPEC® OMPG2012 Result

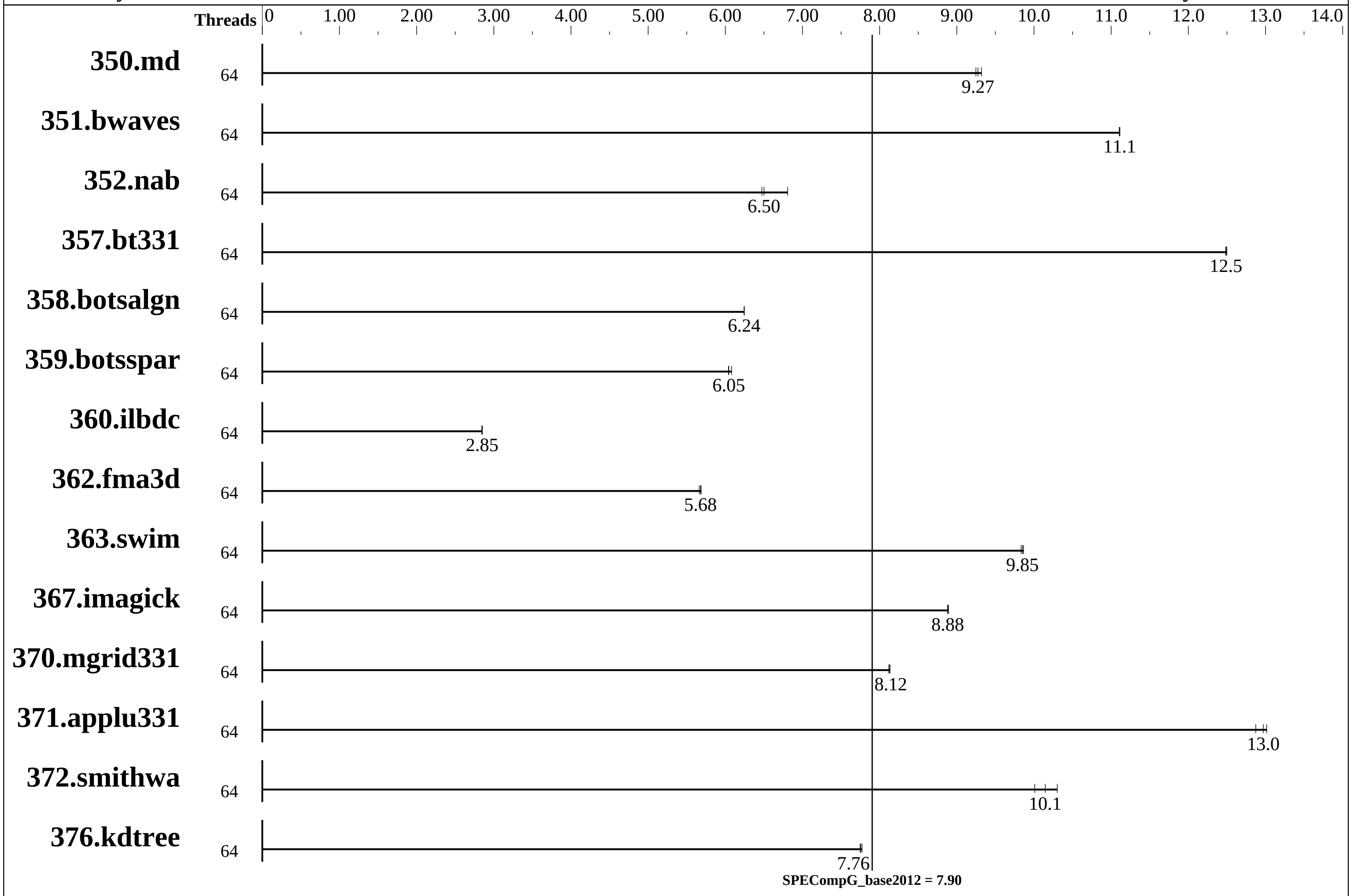
SGI

SPECompG_peak2012 = Not Run

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

SPECompG_base2012 = 7.90

OMP2012 license:	14	**Test date:**	Mar-2013
Test sponsor:	SGI	**Hardware Availability:**	Nov-2012
Tested by:	SGI	**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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OMP2012 license: 14
Test sponsor: SGI
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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	**499**	**9.27**	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

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
`-O3 -xAVX -ipo1 -openmp -ansi-alias -mcmodel=medium -shared-intel`

C++ benchmarks:
`-O3 -xAVX -ipo1 -openmp -mcmodel=medium -shared-intel`

Fortran benchmarks:
`-O3 -xAVX -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-ic13.20130403.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

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

Tested with SPEC OMP2012 v1.0.
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