SPEC® OMPG2012 Result

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SGI

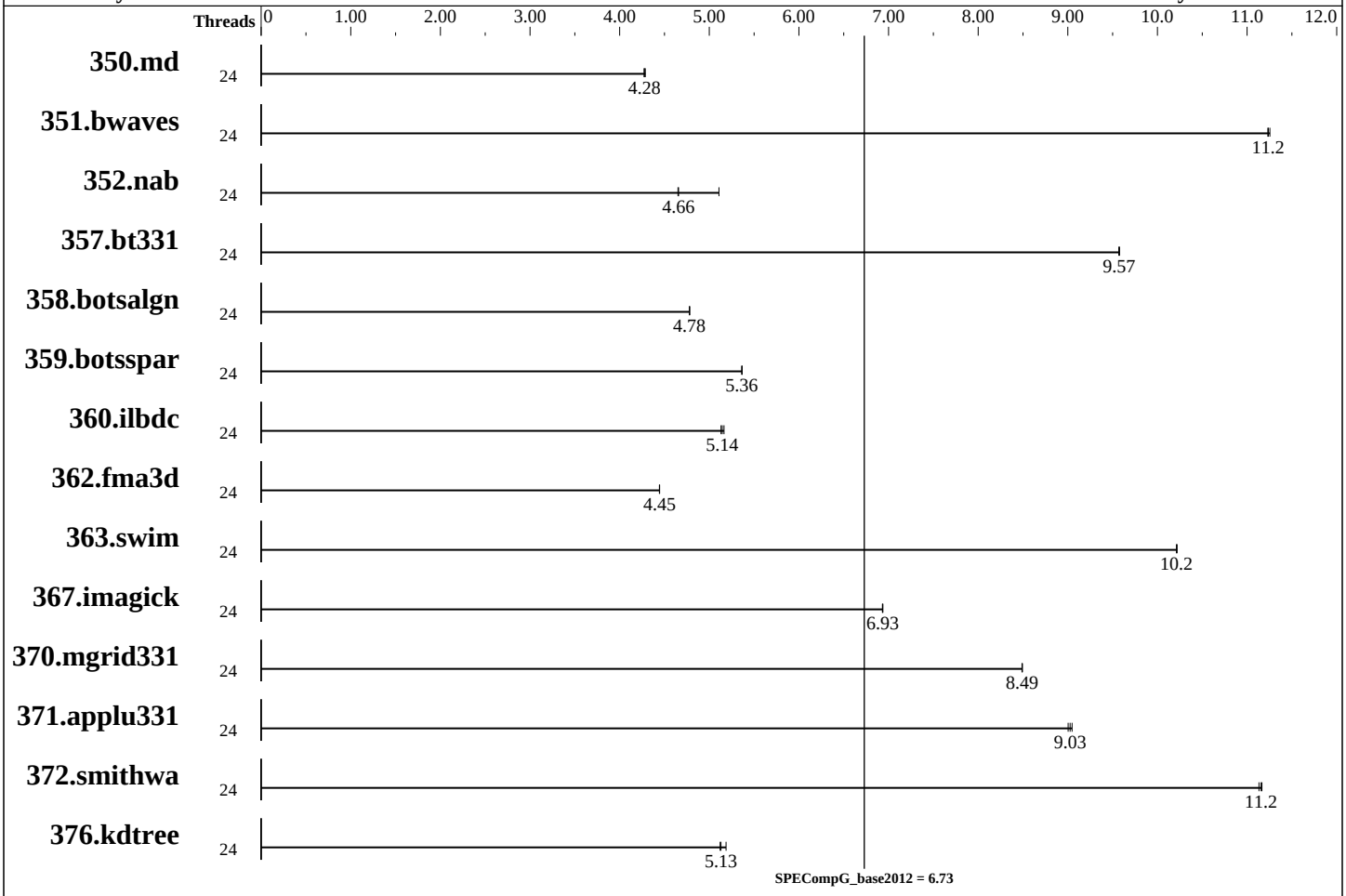
SGI UV20 (Intel Xeon E5-4617, 2.9 GHz)

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 6.73

OMP2012 license: 14
Test sponsor: SGI
Tested by: SGI

Test date: Mar-2013
Hardware Availability: Jun-2012
Software Availability: Jan-2013



Hardware

CPU Name:	Intel Xeon E5-4617
CPU Characteristics:	Intel Turbo Boost Technology up to 3.40 GHz
CPU MHz:	2900
CPU MHz Maximum:	3400
FPU:	Integrated
CPU(s) enabled:	24 cores, 4 chips, 6 cores/chip
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:	15 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: 24
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	24	**1082**	**4.28**	1080	4.29	1084	4.27							
351.bwaves	24	403	11.3	403	11.2	**403**	**11.2**							
352.nab	24	**835**	**4.66**	762	5.11	836	4.65							
357.bt331	24	**495**	**9.57**	495	9.58	495	9.57							
358.botsalgn	24	**910**	**4.78**	910	4.78	910	4.78							
359.botsspar	24	979	5.36	**979**	**5.36**	979	5.36							
360.ilbdc	24	689	5.16	694	5.13	**692**	**5.14**							
362.fma3d	24	855	4.44	855	4.45	**855**	**4.45**							
363.swim	24	443	10.2	444	10.2	**444**	**10.2**							
367.imagick	24	1014	6.93	**1014**	**6.93**	1013	6.94							
370.mgrid331	24	520	8.49	**520**	**8.49**	521	8.49							
371.applu331	24	670	9.05	673	9.00	**671**	**9.03**							
372.smithwa	24	480	11.2	481	11.1	**480**	**11.2**							
376.kdtree	24	**877**	**5.13**	879	5.12	868	5.19							

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.
    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.
```

Operating System Notes

```
export KMP_AFFINITY=disabled
export KMP_STACKSIZE=200M
export KMP_LIBRARY=turnaround
export KMP_BLOCKTIME=infinite
export OMP_DYNAMIC=FALSE
limit -s unlimited
```

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General Notes

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`

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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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