



SPEC[®] CFP2006 Result

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SGI

SPECfp[®]_rate2006 = Not Run

SGI Altix UV 1000 (Intel Xeon X7560, 2.26 GHz)

SPECfp_rate_base2006 = 6840

CPU2006 license: 4

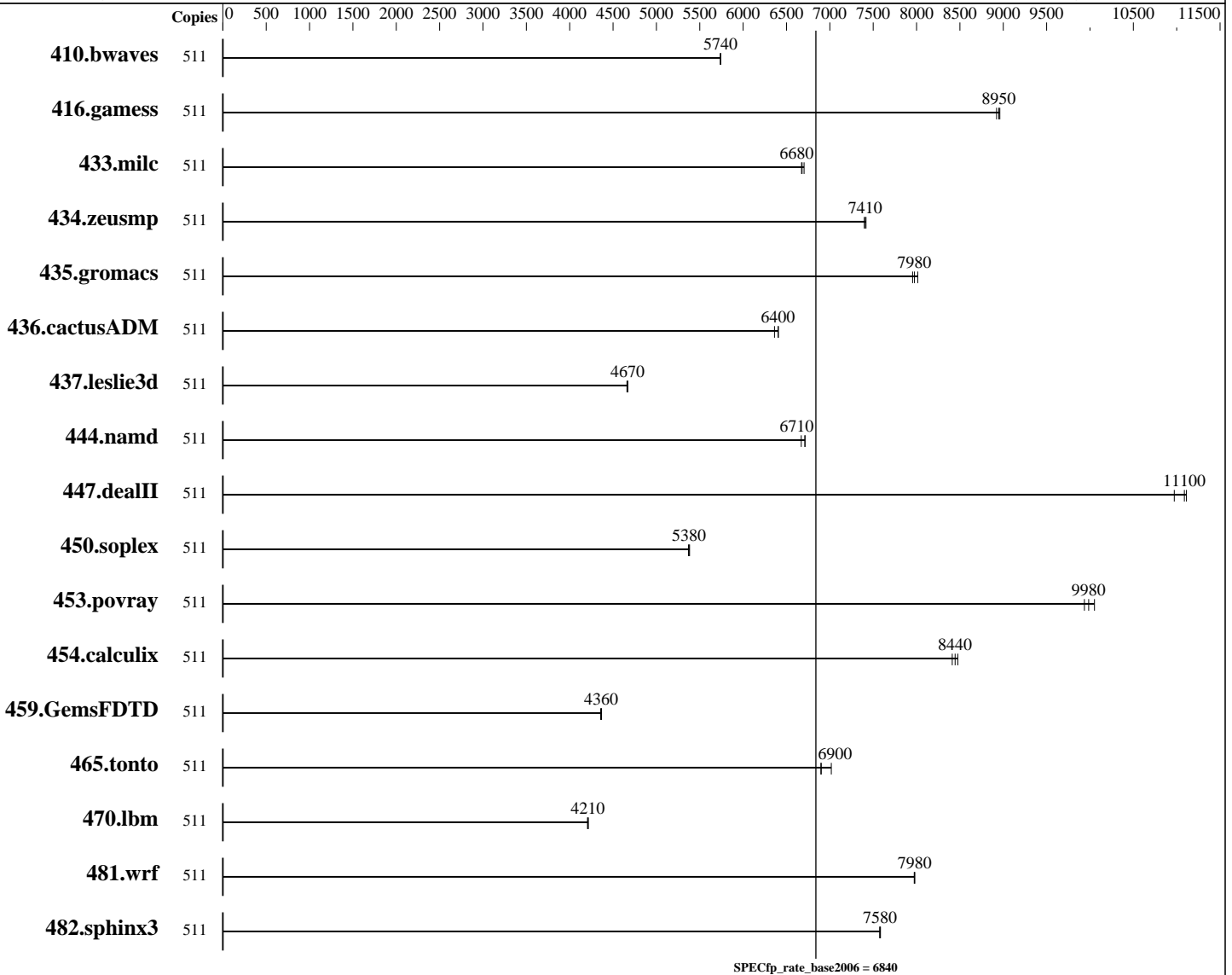
Test sponsor: SGI

Tested by: SGI

Test date: Mar-2010

Hardware Availability: Jun-2010

Software Availability: Jun-2010



Hardware

CPU Name: Intel Xeon X7560
 CPU Characteristics: Intel Turbo Boost Technology is not-enabled
 CPU MHz: 2266
 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

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Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64) SP1, Kernel 2.6.32.8-0.3.1-uv
 Compiler: Intel C++ and Fortran Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: l_cproc_p_11.1.064, l_cprof_p_11.1.064
 Auto Parallel: No
 File System: tmpfs
 System State: Multi-user, run level 3

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L3 Cache: 24 MB I+D on chip per chip
Other Cache: None
Memory: 2 TB (512 x 4GB dual-rank DDR3-1066 CL7 RDIMMs)
Disk Subsystem: 1 TB tmpfs
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: Binutils 2.18.50.0.7.20080502

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	511	1210	5740	1210	5740	<u>1210</u>	<u>5740</u>							
416.gamess	511	1121	8920	<u>1118</u>	<u>8950</u>	1117	8960							
433.milc	511	703	6670	700	6700	<u>702</u>	<u>6680</u>							
434.zeusmp	511	<u>628</u>	<u>7410</u>	629	7400	627	7420							
435.gromacs	511	<u>457</u>	<u>7980</u>	455	8010	459	7950							
436.cactusADM	511	<u>954</u>	<u>6400</u>	953	6410	960	6360							
437.leslie3d	511	<u>1029</u>	<u>4670</u>	1031	4660	1029	4670							
444.namd	511	610	6710	614	6670	<u>611</u>	<u>6710</u>							
447.dealII	511	526	11100	<u>527</u>	<u>11100</u>	533	11000							
450.soplex	511	<u>793</u>	<u>5380</u>	792	5380	794	5370							
453.povray	511	<u>272</u>	<u>9980</u>	274	9940	270	10100							
454.calculix	511	501	8410	497	8480	<u>499</u>	<u>8440</u>							
459.GemsFDTD	511	1242	4370	<u>1242</u>	<u>4360</u>	1245	4360							
465.tonto	511	717	7020	729	6900	<u>729</u>	<u>6900</u>							
470.lbm	511	<u>1668</u>	<u>4210</u>	1666	4220	1669	4210							
481.wrf	511	<u>715</u>	<u>7980</u>	716	7970	715	7980							
482.sphinx3	511	1313	7580	1315	7570	<u>1314</u>	<u>7580</u>							

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.
numactl was used to bind copies to the cores

Operating System Notes

Tmpfs filesystem set up with:
mkdir -p /mnt/shm
mount -t tmpfs -o rw,mpol=interleave tmpfs /mnt/shm/
The mpol=interleave option sets the NUMA memory allocation policy for all files to allocate from each node in turn.



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Platform Notes

Hyperthreading disabled in BIOS

Base Compiler Invocation

C benchmarks:

icc -m64

C++ benchmarks:

icpc -m64

Fortran benchmarks:

ifort -m64

Benchmarks using both Fortran and C:

icc -m64 ifort -m64

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

Fortran benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

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Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100316.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100316.xml>

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

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 09:39:07 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 14 April 2010.