



SPEC[®] CFP2006 Result

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SGI

SGI Altix 4700 Bandwidth System (Dual-Core Intel Itanium 2 9040 1.60GHz/18M)

SPECfp[®]_rate2006 = Not Run

SPECfp_rate_base2006 = 10600

CPU2006 license: 4

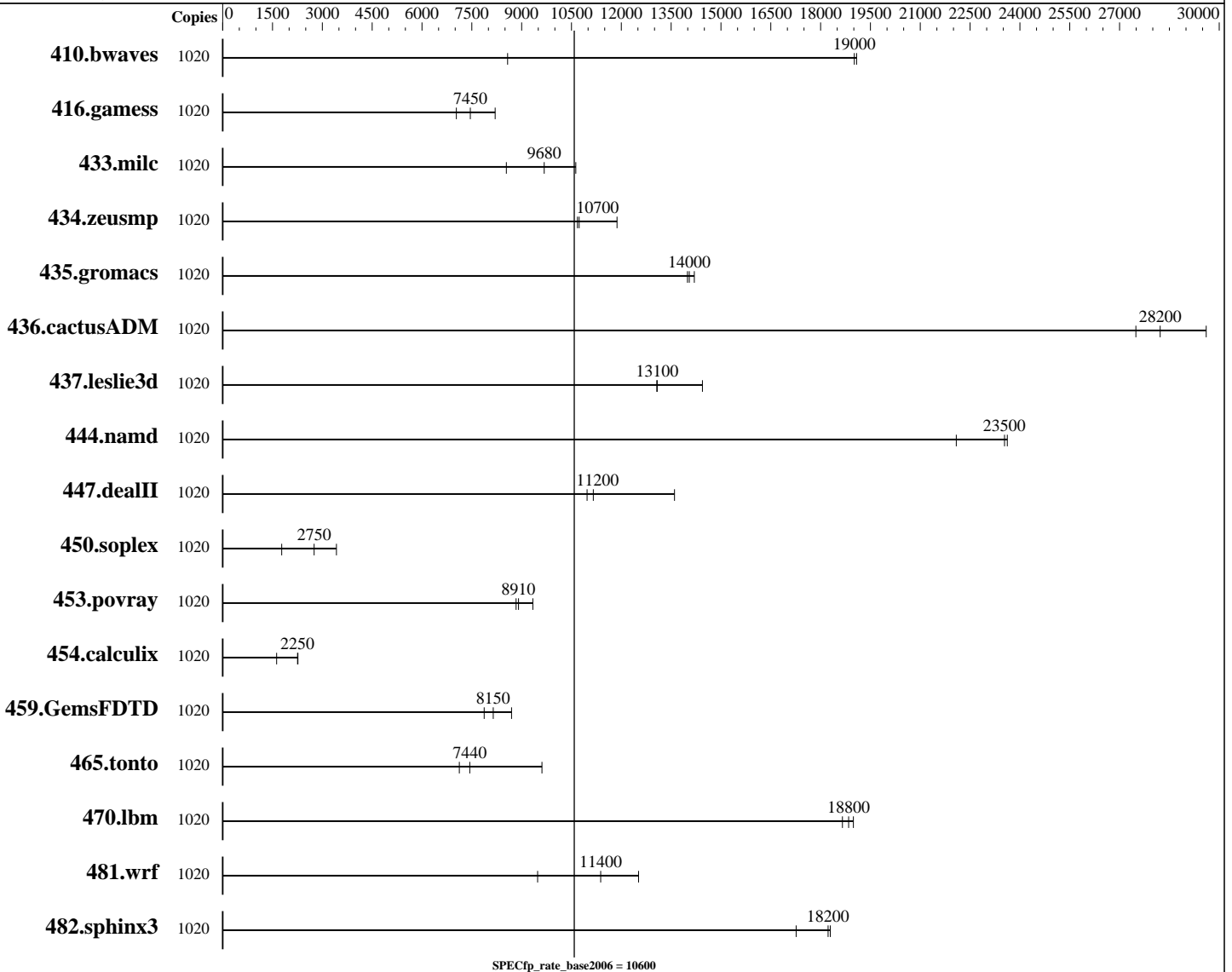
Test sponsor: SGI

Tested by: SGI

Test date: Jul-2009

Hardware Availability: Nov-2007

Software Availability: Jul-2009



Hardware

CPU Name: Dual-Core Intel Itanium 2 9040
 CPU Characteristics: 533MHz FSB
 CPU MHz: 1594
 FPU: Integrated
 CPU(s) enabled: 1024 cores, 512 chips, 2 cores/chip
 CPU(s) orderable: 8 to 512 blades with 1 chip per blade
 Primary Cache: 16 KB I + 16 KB D on chip per core
 Secondary Cache: 1 MB I + 256 KB D on chip per core

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Software

Operating System: SUSE Linux Enterprise Server 10 (ia64) SP2, Kernel 2.6.16.60-0.35.PTF.352893.0-default
 Compiler: Intel Fortran Compiler for Linux 11.1 (Build 20090630)
 Intel C++ Compiler for Linux 11.1 (Build 20090630)
 Auto Parallel: No
 File System: xfs
 System State: Multi-user, run level 3

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L3 Cache: 9 MB I+D on chip per core
Other Cache: None
Memory: 4 TB (8*1GB DDR2-400 DIMMS per blade)
Disk Subsystem: 279 TB RAID5
1024 x 300 GB FC (Hitachi Ultrastar 10k rpm)
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: SGI ProPack 6 Service Pack 2

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	1020	1616	8580	726	19100	729	19000									
416.gamess	1020	2679	7450	2839	7030	2435	8200									
433.milc	1020	967	9680	881	10600	1096	8540									
434.zeusmp	1020	865	10700	869	10700	782	11900									
435.gromacs	1020	513	14200	518	14000	521	14000									
436.cactusADM	1020	432	28200	443	27500	412	29600									
437.leslie3d	1020	734	13100	733	13100	664	14400									
444.namd	1020	370	22100	346	23600	348	23500									
447.dealII	1020	1064	11000	1046	11200	858	13600									
450.soplex	1020	2484	3420	4788	1780	3090	2750									
453.povray	1020	614	8830	609	8910	581	9340									
454.calculix	1020	3735	2250	5182	1620	3715	2260									
459.GemsFDTD	1020	1329	8150	1375	7870	1244	8700									
465.tonto	1020	1409	7120	1044	9610	1349	7440									
470.lbm	1020	751	18700	738	19000	744	18800									
481.wrf	1020	1001	11400	1202	9480	910	12500									
482.sphinx3	1020	1091	18200	1152	17300	1087	18300									

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

```
Processes were bound to CPUs using dplace.
limit stacksize unlimited
System was configured with 4-cpu boot cpuset
echo 0 > /dev/cpuset/memory_spread_page
runspec was launched from root cpuset
```



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Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

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_LINUX -DSPEC_CPU_LINUX64_IPF
 482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:

-fast -fp-relaxed -opt-prefetch-issue-excl-hint -ansi-alias

C++ benchmarks:

-fast -fp-relaxed -opt-prefetch-issue-excl-hint -ansi-alias

Fortran benchmarks:

-fast -fp-relaxed -opt-prefetch-issue-excl-hint

Benchmarks using both Fortran and C:

-fast -fp-relaxed -opt-prefetch-issue-excl-hint -ansi-alias



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

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

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-ipf.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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