SPEC® CINT2006 Result

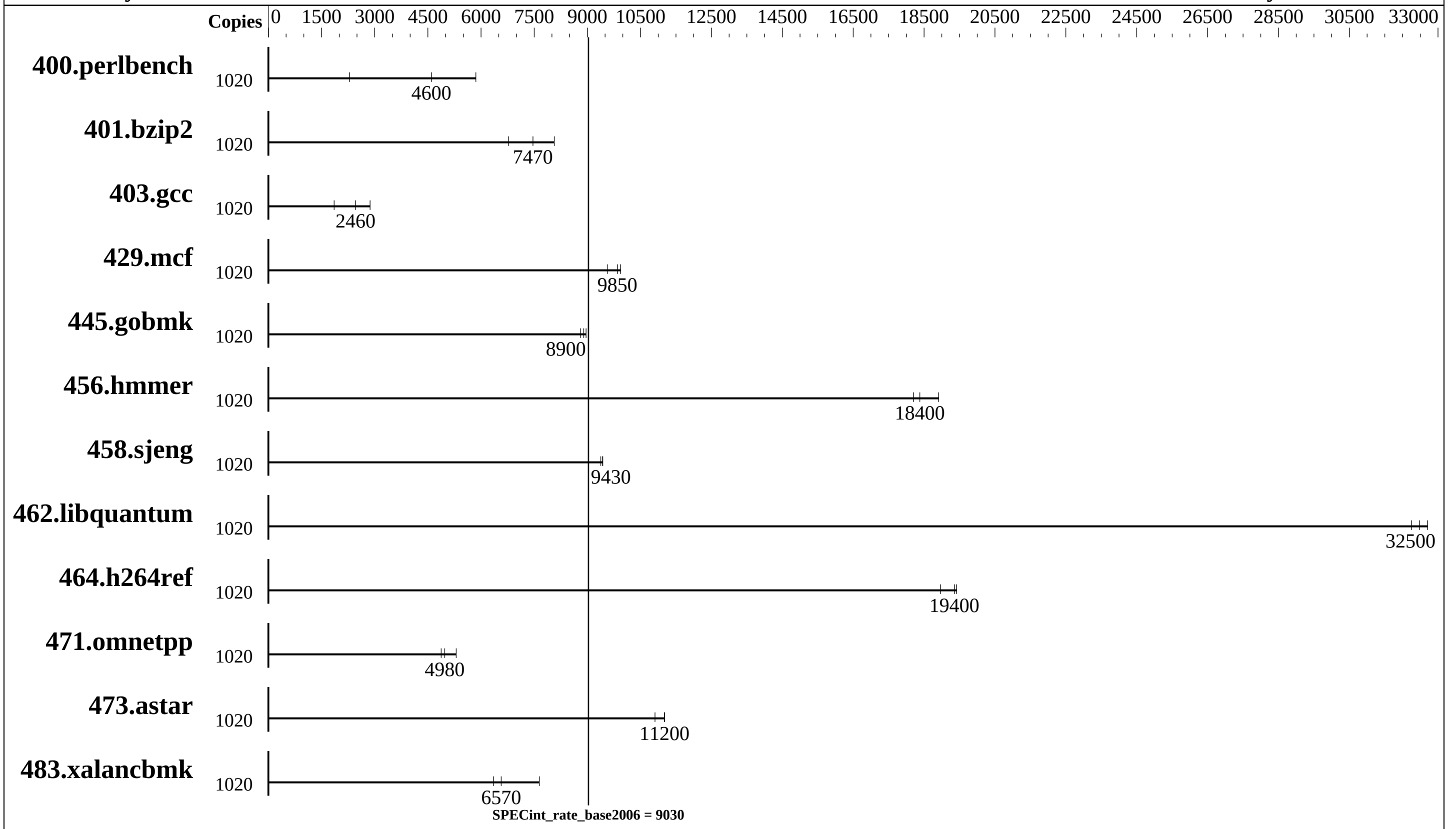
SGI

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

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 9030

CPU2006 license:	4	**Test date:**	Jul-2009
Test sponsor:	SGI	**Hardware Availability:**	Nov-2007
Tested by:	SGI	**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
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

Software

Operating System:	SUSE Linux Enterprise Server 10 (ia64) SP2, Kernel 2.6.16.60-0.35.PTF.352893.0-default
Compiler:	Intel C++ Compiler for Linux 11.1 (Build 20090630)
Auto Parallel:	No
File System:	xfs
System State:	Multi-user, run level 3
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	MicroQuill SmartHeap Library 8 (www.microquill.com) SGI ProPack 6 Service Pack 2

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Results Table

	Base							Peak						
Benchmark	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
400.perlbench	1020	1702	5850	**2168**	**4600**	4355	2290							
401.bzip2	1020	1452	6780	1220	8070	**1319**	**7470**							
403.gcc	1020	4426	1860	2862	2870	**3340**	**2460**							
429.mcf	1020	**944**	**9850**	936	9940	973	9560							
445.gobmk	1020	**1202**	**8900**	1194	8960	1214	8810							
456.hmmer	1020	523	18200	**518**	**18400**	503	18900							
458.sjeng	1020	1308	9440	1316	9380	**1309**	**9430**							
462.libquantum	1020	646	32700	**651**	**32500**	655	32300							
464.h264ref	1020	1162	19400	**1166**	**19400**	1190	19000							
471.omnetpp	1020	1308	4870	1203	5300	**1281**	**4980**							
473.astar	1020	640	11200	**641**	**11200**	656	10900							
483.xalancbmk	1020	921	7640	1109	6350	**1071**	**6570**							

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
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Base Portability Flags

400.perlbench: `-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_IA64`

Continued on next page

Base Portability Flags (Continued)

401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast -fp-relaxed -no-opt-prefetch-initial-values -ansi-alias

C++ benchmarks:
-fast -fp-relaxed -no-opt-prefetch-initial-values -ansi-alias
-Wl,-z,muldefs libsmartheapC64.a libsmartheap64.a

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

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

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