SPEC® CINT2006 Result

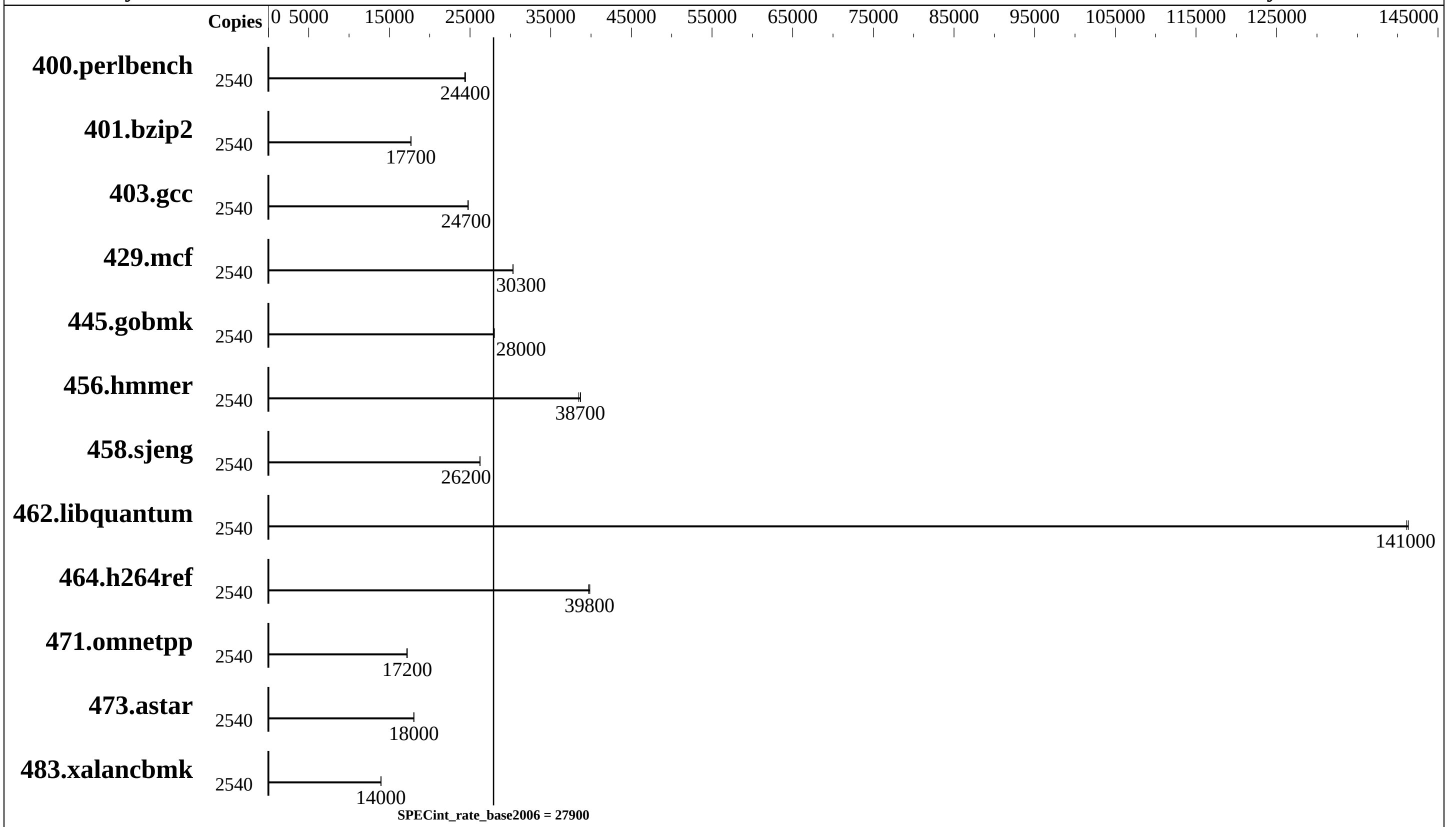
SGI

SPECint®_rate2006 = Not Run

SGI Altix UV 1000 (Intel Xeon E7-4870, 2.4 GHz)

SPECint_rate_base2006 = 27900

CPU2006 license:	4	**Test date:**	Feb-2011
Test sponsor:	SGI	**Hardware Availability:**	Apr-2011
Tested by:	SGI	**Software Availability:**	Mar-2011



Hardware

CPU Name:	Intel Xeon E7-4870
CPU Characteristics:	Intel Turbo Boost Technology not enabled
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	1280 cores, 128 chips, 10 cores/chip, 2 threads/core
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
L3 Cache:	30 MB I+D on chip per chip
Other Cache:	None
Memory:	4 TB (1024 x 4 GB 4Rx8 PC3-8500R-7, ECC)
Disk Subsystem:	4 TB tmpfs
Other Hardware:	NUMAlink5 routers

Software

Operating System:	SUSE Linux Enterprise Server 11 (x86_64) SP1, Kernel 2.6.32.12-0.7.1-uv
Compiler:	Intel C++ Compiler XE for applications running on IA-32 Version 12.0.1.116 Build 20101116
Auto Parallel:	No
File System:	tmpfs
System State:	Run Level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	Not Applicable
Other Software:	Microquill SmartHeap V9.01

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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2540	1019	24300	**1017**	**24400**	1015	24400							
401.bzip2	2540	**1387**	**17700**	1385	17700	1388	17700							
403.gcc	2540	825	24800	827	24700	**826**	**24700**							
429.mcf	2540	763	30400	**764**	**30300**	764	30300							
445.gobmk	2540	955	27900	951	28000	**952**	**28000**							
456.hmmer	2540	616	38500	612	38700	**613**	**38700**							
458.sjeng	2540	1171	26300	**1172**	**26200**	1172	26200							
462.libquantum	2540	373	141000	372	141000	**373**	**141000**							
464.h264ref	2540	**1411**	**39800**	1410	39900	1417	39700							
471.omnetpp	2540	**922**	**17200**	922	17200	925	17200							
473.astar	2540	990	18000	**988**	**18000**	988	18000							
483.xalancbmk	2540	1256	14000	**1256**	**14000**	1254	14000							

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

```
Large pages were disabled for this run
Tmpfs filesystem set up with:
  mkdir -p /mnt/shm
  mount -t tmpfs -o size=4096g,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.

ulimit -s unlimited
Kernel is generally available as 2.6.32.29-0.3.1.2687.3.PTF-default
```

Platform Notes

```
OS on 146 GB SAS disk
```

General Notes

```
Binaries compiled on RHEL5.5 with binutils-2.17.50.0.6-14.el5
```

Base Compiler Invocation

C benchmarks:
`icc -m32`

C++ benchmarks:
`icpc -m32`

Base Portability Flags

400.perlbench: `-DSPEC_CPU_LINUX_IA32`
462.libquantum: `-DSPEC_CPU_LINUX`
483.xalancbmk: `-DSPEC_CPU_LINUX`

Base Optimization Flags

C benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

C++ benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/smartheap -lsmartheap
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.html
http://www.spec.org/cpu2006/flags/platform.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.xml
http://www.spec.org/cpu2006/flags/platform.xml

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

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