SPEC® CINT2006 Result

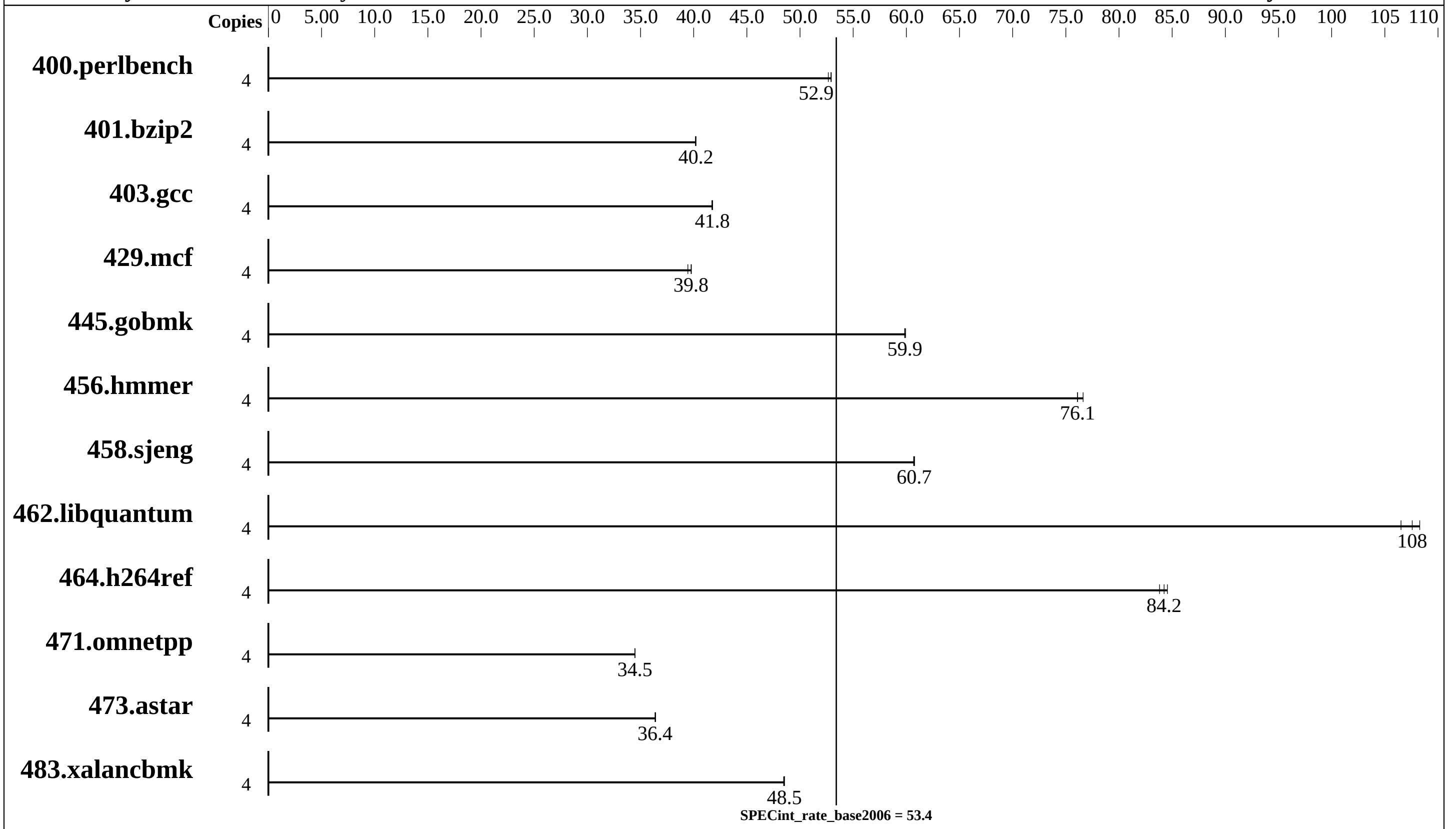
Sun Microsystems

Sun Fire X4240 (AMD Opteron 2224 SE 3.2GHz)

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 53.4

CPU2006 license:	6	**Test date:**	Nov-2008
Test sponsor:	Sun Microsystems	**Hardware Availability:**	Mar-2008
Tested by:	Sun Microsystems	**Software Availability:**	Jun-2008



Hardware

CPU Name:	AMD Opteron 2224 SE
CPU Characteristics:	
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8x2GB, DDR2-667, CL5, Reg, Dual Rank)
Disk Subsystem:	SAS, 72 GB,10 K RPM
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	PGI Server Complete Version 7.2
Auto Parallel:	No
File System:	ReiserFS
System State:	Run level 3 (Full multiuser with network)
Base Pointers:	32/64-bit
Peak Pointers:	Not Applicable
Other Software:	binutils 2.18 32-bit and 64-bit libhugetlbfs libraries

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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	4	742	52.7	**739**	**52.9**	738	52.9							
401.bzip2	4	**960**	**40.2**	961	40.2	960	40.2							
403.gcc	4	771	41.8	**771**	**41.8**	772	41.7							
429.mcf	4	**918**	**39.8**	917	39.8	925	39.5							
445.gobmk	4	**701**	**59.9**	701	59.8	700	59.9							
456.hmmer	4	490	76.1	487	76.6	**490**	**76.1**							
458.sjeng	4	798	60.7	796	60.8	**797**	**60.7**							
462.libquantum	4	765	108	**770**	**108**	778	107							
464.h264ref	4	1056	83.8	**1051**	**84.2**	1047	84.6							
471.omnetpp	4	725	34.5	725	34.5	**725**	**34.5**							
473.astar	4	771	36.4	**772**	**36.4**	772	36.4							
483.xalancbmk	4	570	48.5	**569**	**48.5**	569	48.5							

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

```
 The libhugetlbfs libraries were installed using the
 installation rpms that came with the distribution.

 'ulimit -s unlimited' was used to set environment stack size
 'ulimit -l 2097152'  was used to set environment locked pages in memory limit

 Set vm/nr_hugepages=7168 in /etc/sysctl.conf
 mount -t hugetlbfs nodev /mnt/hugepages
```

General Notes

```
Environment variables set by runspec before the start of the run:
HUGETLB_MORECORE = "yes"
LD_LIBRARY_PATH = "/data1/61dorado-cpu2006v1.1/amd909gh-libs/64:/data1/61dorado-cpu2006v1.1/amd909gh-libs/32"
Default BIOS settings were used.
```

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Base Compiler Invocation

C benchmarks:
`pgcc`

C++ benchmarks:
`pgcpp`

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
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
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-Mvect=cachesize:6291456 -fastsse -Msmartalloc=huge -Mfprelaxed
-Mipa=fast -Mipa=inline -tp barcelona-64 -Bstatic_pgi

C++ benchmarks:
-Mvect=cachesize:6291456 -fastsse -Msmartalloc=huge -Mfprelaxed
--zc_eh -Mipa=fast -Mipa=inline:10 -tp barcelona-32 -Bstatic_pgi

Base Other Flags

C benchmarks:
-Mipa=jobs:4

C++ benchmarks:
-Mipa=jobs:4

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/pgi72_linux_flags.html
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090710.html
http://www.spec.org/cpu2006/flags/amd-platform-amd909gh.html

You can also download the XML flags sources by saving the following links:

http://www.spec.org/cpu2006/flags/pgi72_linux_flags.xml
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090710.xml
http://www.spec.org/cpu2006/flags/amd-platform-amd909gh.xml

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

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