SPEC® CINT2006 Result

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Dell Inc.

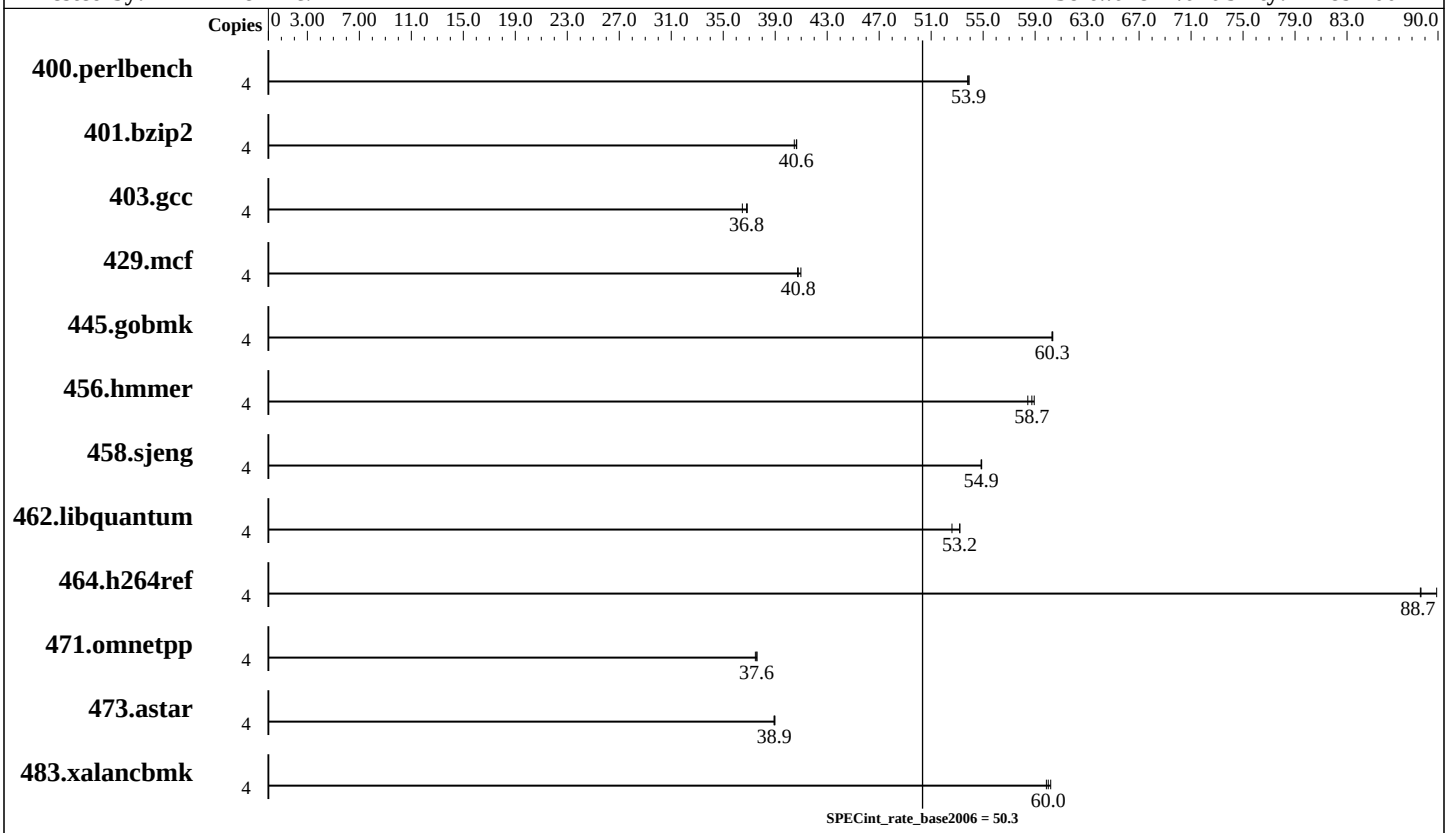
PowerEdge 2970 (AMD Opteron 2222 SE, 3.00GHz)

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 50.3

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Apr-2007
Hardware Availability: Apr-2007
Software Availability: Feb-2007



Hardware

CPU Name:	AMD Opteron 2222 SE
CPU Characteristics:	
CPU MHz:	3000
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 ECC Dual Rank)
Disk Subsystem:	SAS, 73 GB
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 10 64-bit kernel
Compiler:	QLogic PathScale Compiler Suite, Release 3.0
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-user, run level 3
Base Pointers:	32/64-bit
Peak Pointers:	Not Applicable
Other Software:	SmartHeap 8.0 32 bit Library for Linux

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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	4	726	53.8	**725**	**53.9**	725	53.9							
401.bzip2	4	**950**	**40.6**	949	40.7	954	40.5							
403.gcc	4	**875**	**36.8**	874	36.8	883	36.5							
429.mcf	4	890	41.0	**895**	**40.8**	896	40.7							
445.gobmk	4	695	60.4	**696**	**60.3**	696	60.3							
456.hmmer	4	633	58.9	**635**	**58.7**	639	58.4							
458.sjeng	4	**882**	**54.9**	882	54.9	882	54.8							
462.libquantum	4	1576	52.6	1558	53.2	**1558**	**53.2**							
464.h264ref	4	999	88.6	**998**	**88.7**	985	89.9							
471.omnetpp	4	665	37.6	**665**	**37.6**	667	37.5							
473.astar	4	722	38.9	720	39.0	**721**	**38.9**							
483.xalancbmk	4	**460**	**60.0**	458	60.2	461	59.9							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
Taskset utility used to bind cores to processes
```

Base Compiler Invocation

C benchmarks:
`pathcc`

C++ benchmarks:
`pathCC`

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:
```
-Ofast -OPT:malloc_alg=1
```

C++ benchmarks:
```
-Ofast -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap
```

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.xml`

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