



SPEC[®] CINT2006 Result

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Dell Inc.

SPECint[®]_rate2006 = Not Run

PowerEdge 2970 (AMD Opteron 2220, 2.80GHz)

SPECint_rate_base2006 = 45.4

CPU2006 license: 55

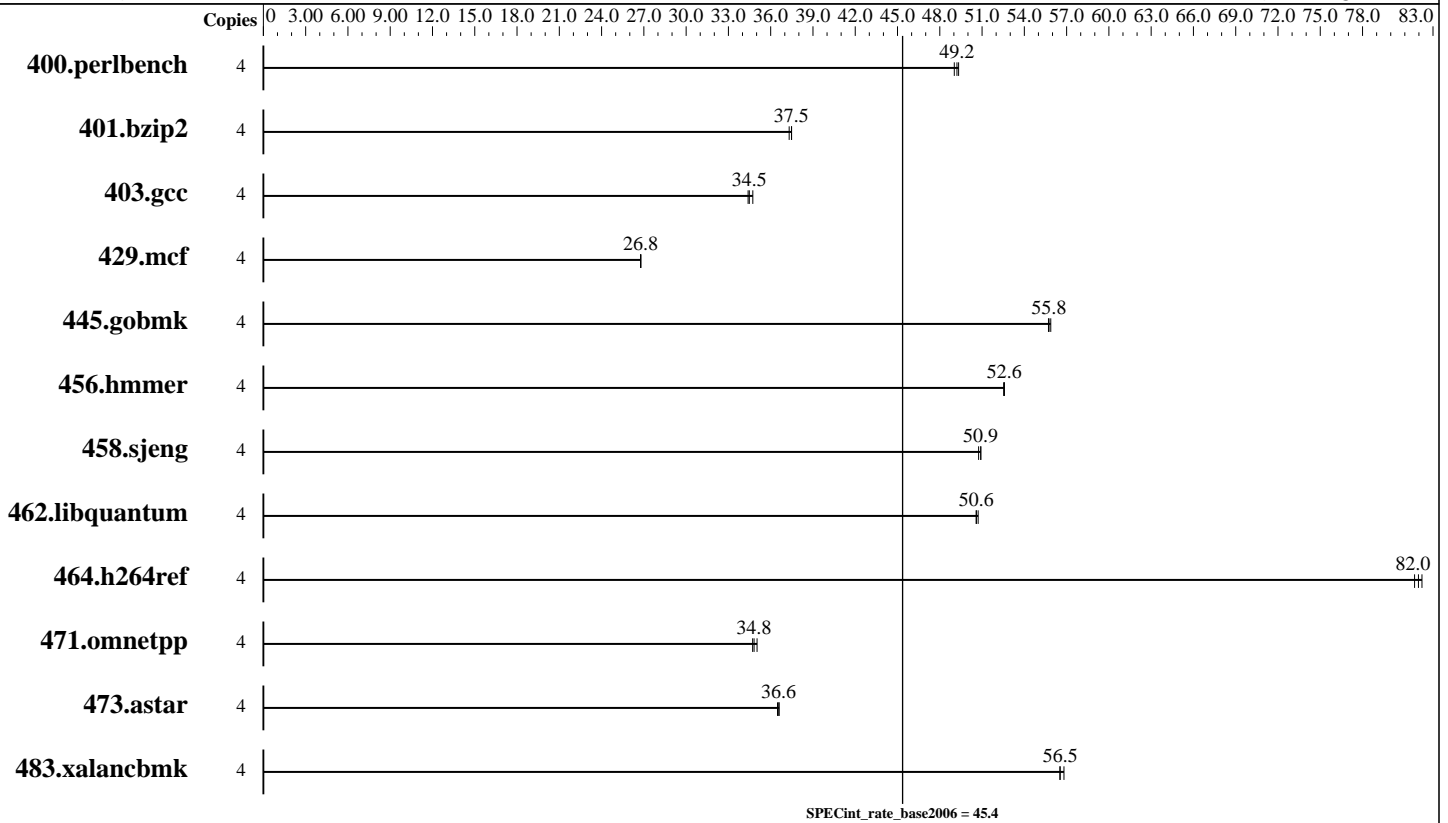
Test date: Mar-2007

Test sponsor: Dell Inc.

Hardware Availability: Apr-2007

Tested by: Dell Inc.

Software Availability: Aug-2006



Hardware

CPU Name: AMD Opteron 2220
 CPU Characteristics:
 CPU MHz: 2800
 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 2.5
 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	797	49.0	<u>794</u>	<u>49.2</u>	792	49.3							
401.bzip2	4	<u>1030</u>	<u>37.5</u>	1030	37.5	1035	37.3							
403.gcc	4	927	34.7	<u>934</u>	<u>34.5</u>	936	34.4							
429.mcf	4	1362	26.8	<u>1363</u>	<u>26.8</u>	1363	26.8							
445.gobmk	4	751	55.9	<u>753</u>	<u>55.8</u>	753	55.7							
456.hmmer	4	<u>710</u>	<u>52.6</u>	710	52.5	710	52.6							
458.sjeng	4	954	50.8	951	50.9	<u>951</u>	<u>50.9</u>							
462.libquantum	4	1634	50.7	<u>1638</u>	<u>50.6</u>	1639	50.6							
464.h264ref	4	1077	82.2	1084	81.7	<u>1080</u>	<u>82.0</u>							
471.omnetpp	4	714	35.0	<u>718</u>	<u>34.8</u>	720	34.7							
473.astar	4	<u>768</u>	<u>36.6</u>	770	36.5	767	36.6							
483.xalancbmk	4	<u>488</u>	<u>56.5</u>	486	56.8	488	56.5							

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

General Notes

Taskset utility used to bind CPU(s) to processes
Binaries were built on SuSE Linux Enterprise Server 9 SP3 64-bit

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

```



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Base Optimization Flags

C benchmarks:

-Ofast

C++ benchmarks:

-Ofast -m32

-L/spec/mpaton/6v1.0/amd512K8.lib/microquill/lib -lsmartheap

Base Other Flags

C benchmarks:

-IPA:max_jobs=2

C++ benchmarks:

-IPA:max_jobs=2

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.25.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.25.xml

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For other inquiries, please contact webmaster@spec.org.

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