



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = Not Run

PowerEdge 2970 (AMD Opteron 2216, 2.40GHz)

SPECint_rate_base2006 = 40.3

CPU2006 license: 55

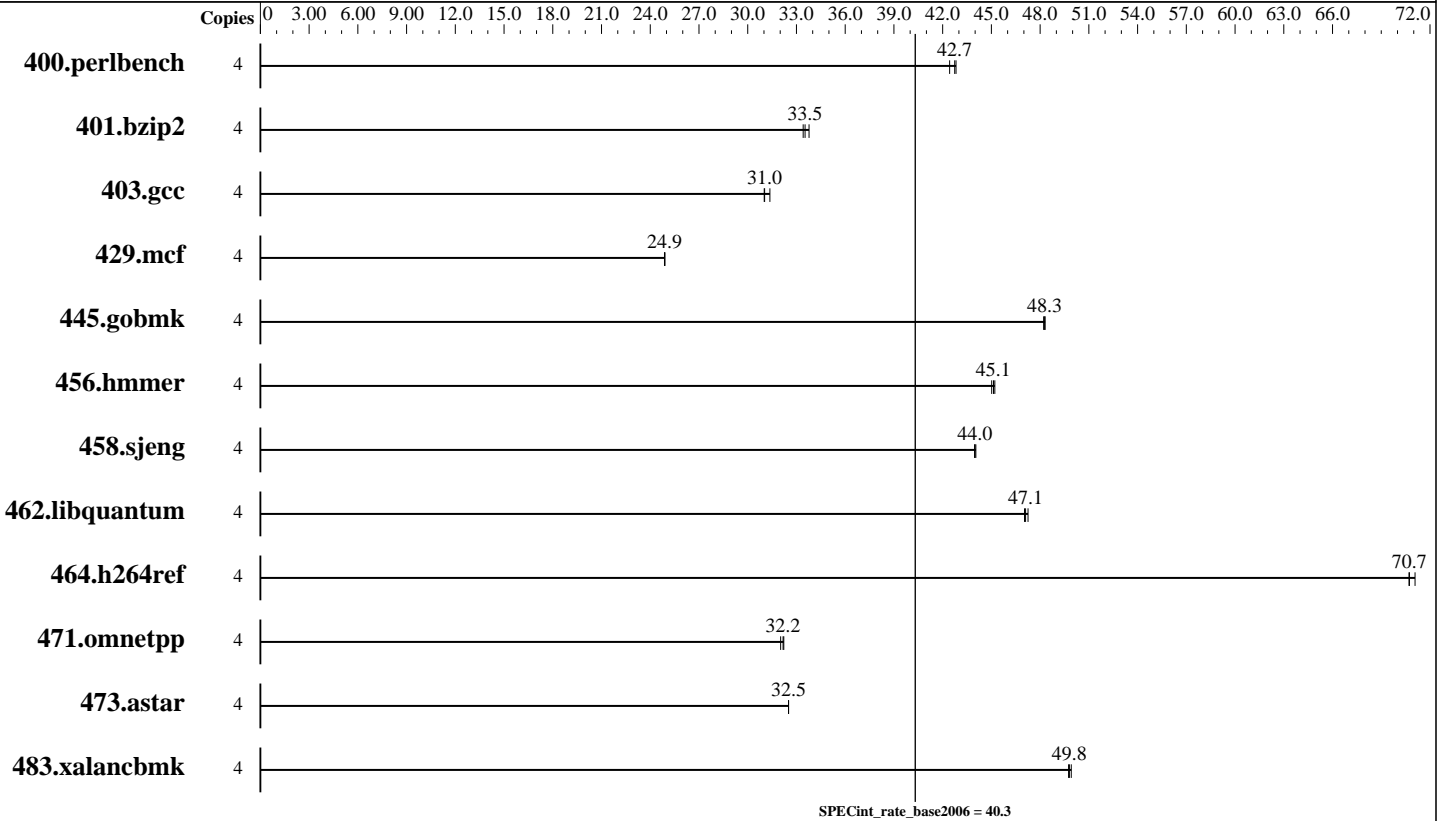
Test date: Mar-2007

Test sponsor: Dell Inc.

Hardware Availability: Apr-2007

Tested by: Dell Inc.

Software Availability: Aug-2006



Hardware

CPU Name: AMD Opteron 2216
 CPU Characteristics:
 CPU MHz: 2400
 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	921	42.4	913	42.8	<u>914</u>	<u>42.7</u>							
401.bzip2	4	<u>1151</u>	<u>33.5</u>	1143	33.8	1155	33.4							
403.gcc	4	1027	31.4	1038	31.0	<u>1037</u>	<u>31.0</u>							
429.mcf	4	1465	24.9	1466	24.9	<u>1466</u>	<u>24.9</u>							
445.gobmk	4	869	48.3	<u>869</u>	<u>48.3</u>	870	48.2							
456.hmmer	4	<u>827</u>	<u>45.1</u>	825	45.2	829	45.0							
458.sjeng	4	1101	44.0	<u>1100</u>	<u>44.0</u>	1099	44.0							
462.libquantum	4	1754	47.3	1762	47.0	<u>1760</u>	<u>47.1</u>							
464.h264ref	4	1245	71.1	<u>1251</u>	<u>70.7</u>	1252	70.7							
471.omnetpp	4	<u>777</u>	<u>32.2</u>	776	32.2	781	32.0							
473.astar	4	864	32.5	<u>864</u>	<u>32.5</u>	864	32.5							
483.xalancbmk	4	<u>554</u>	<u>49.8</u>	555	49.8	553	49.9							

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

General Notes

Taskset utility used to bind 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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