



SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = Not Run

PowerEdge R410 (Intel Xeon E5502, 1.86 GHz)

SPECint_base2006 = 17.1

CPU2006 license: 55

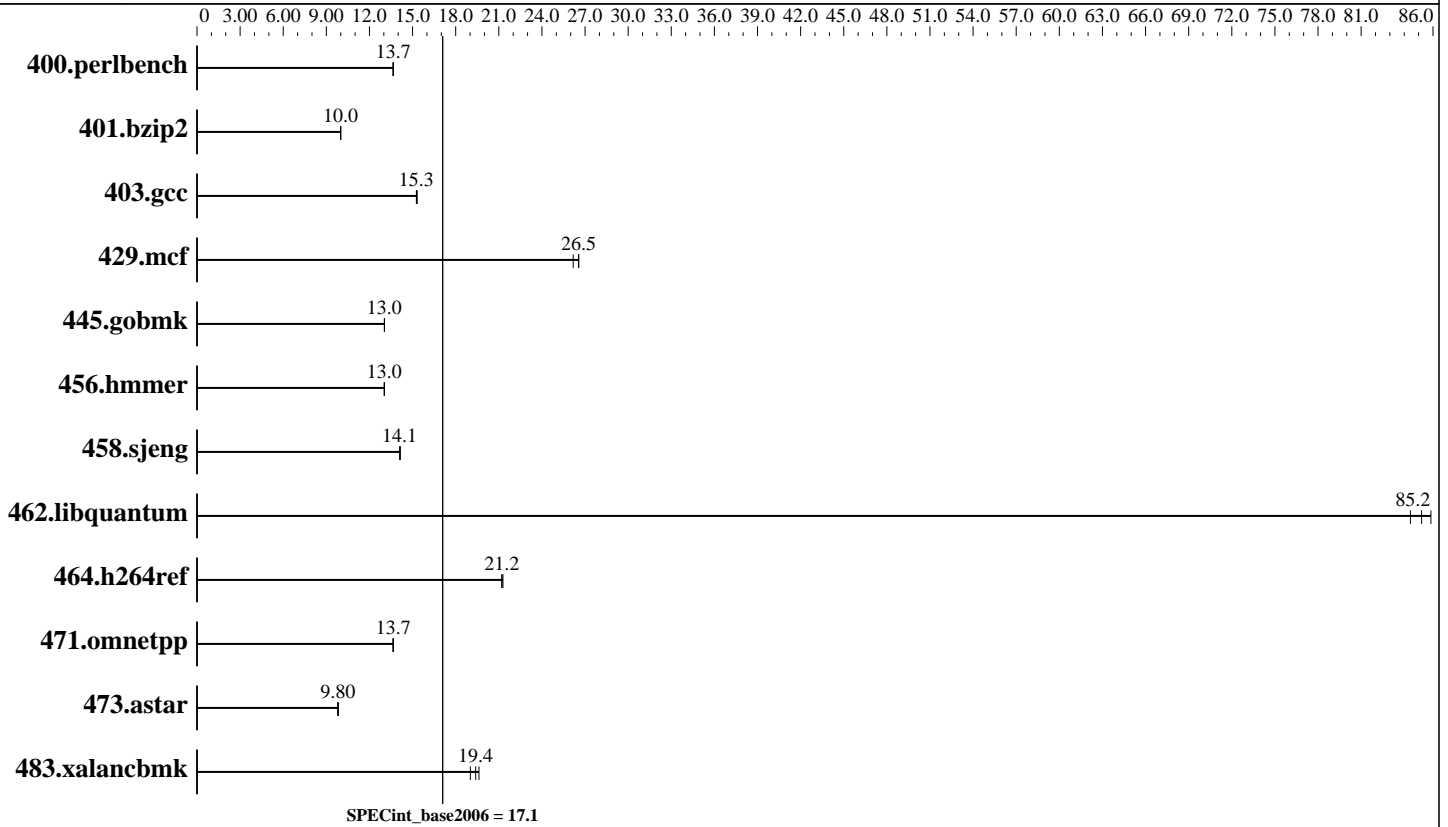
Test date: Sep-2009

Test sponsor: Dell Inc.

Hardware Availability: Jun-2009

Tested by: Dell Inc.

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon E5502
 CPU Characteristics:
 CPU MHz: 1867
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 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: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 4 GB (2 x 2 GB DDR3-1066 DR RDIMM downclocked to 800 MHz)
 Disk Subsystem: 1 x 73 GB 15000 RPM SAS
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60-0.21-smp
 Compiler: Intel C++ Compiler Professional 11.0 for Linux Build 20090131 Package ID: l_cproc_p_11.0.080
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<u>716</u>	<u>13.7</u>	715	13.7	716	13.6						
401.bzip2	965	10.0	<u>965</u>	<u>10.0</u>	966	9.99						
403.gcc	527	15.3	<u>527</u>	<u>15.3</u>	525	15.3						
429.mcf	<u>344</u>	<u>26.5</u>	348	26.2	343	26.6						
445.gobmk	<u>804</u>	<u>13.0</u>	804	13.0	804	13.0						
456.hammer	715	13.0	716	13.0	<u>715</u>	<u>13.0</u>						
458.sjeng	858	14.1	855	14.1	<u>857</u>	<u>14.1</u>						
462.libquantum	245	84.4	<u>243</u>	<u>85.2</u>	241	85.9						
464.h264ref	1040	21.3	1044	21.2	<u>1043</u>	<u>21.2</u>						
471.omnetpp	457	13.7	458	13.6	<u>458</u>	<u>13.7</u>						
473.astar	714	9.83	717	9.80	<u>716</u>	<u>9.80</u>						
483.xalancbmk	352	19.6	363	19.0	<u>356</u>	<u>19.4</u>						

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

General Notes

OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to granularity=fine,scatter

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

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



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Base Optimization Flags

C benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel
-par-runtime-control -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090805.01.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090805.01.xml>

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

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