



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 84.8

PRIMERGY TX300 S3, Intel Xeon processor X5355,
2.66 GHz

SPECint_rate_base2006 = 81.0

CPU2006 license: 22

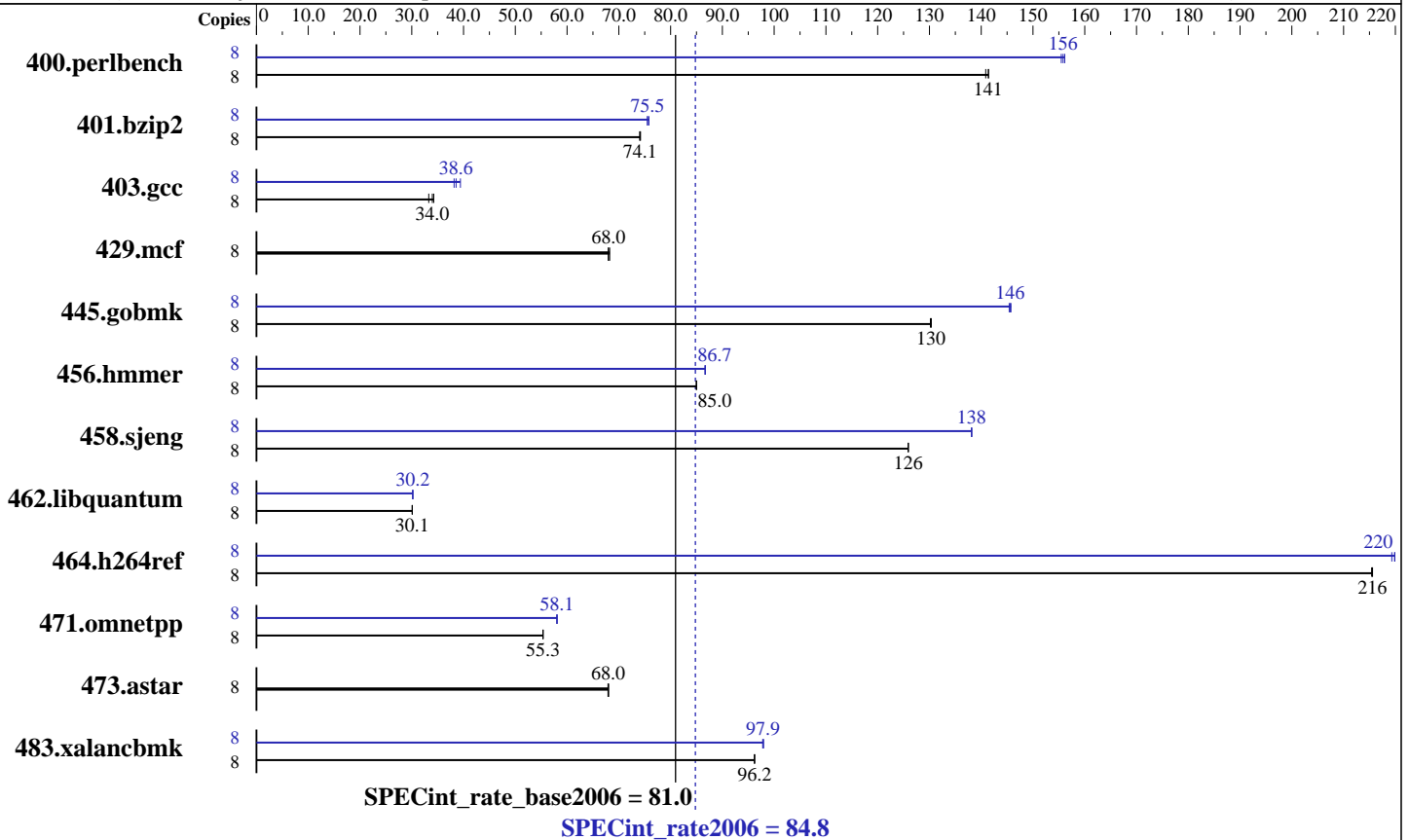
Test date: Feb-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Jan-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: X5355
 CPU MHz: 2667
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
 Disk Subsystem: SAS (73GB 15400 rpm)
 Other Hardware: None

Software

Operating System: Windows Server 2003 x64 Enterprise Edition + SP1 (64-bit)
 Compiler: Intel C++ Compiler for IA32 version 9.1
 - Build 20061103Z, Package-ID W_CC_C_9.1.033
 Microsoft Visual Studio 2005 (libr. & linker)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: Smart Heap Library, Version 8



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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	8	555	141	<u>553</u>	<u>141</u>	553	141	8	503	155	<u>502</u>	<u>156</u>	501	156
401.bzip2	8	1041	74.2	1043	74.0	<u>1042</u>	<u>74.1</u>	8	<u>1022</u>	<u>75.5</u>	1022	75.5	1018	75.8
403.gcc	8	1935	33.3	1880	34.2	<u>1896</u>	<u>34.0</u>	8	<u>1670</u>	<u>38.6</u>	1687	38.2	1635	39.4
429.mcf	8	1074	68.0	<u>1073</u>	<u>68.0</u>	1069	68.2	8	1074	68.0	<u>1073</u>	<u>68.0</u>	1069	68.2
445.gobmk	8	<u>644</u>	<u>130</u>	645	130	644	130	8	577	145	<u>576</u>	<u>146</u>	576	146
456.hammer	8	879	85.0	<u>878</u>	<u>85.0</u>	878	85.0	8	<u>861</u>	<u>86.7</u>	861	86.7	861	86.7
458.sjeng	8	769	126	<u>769</u>	<u>126</u>	769	126	8	701	138	701	138	<u>701</u>	<u>138</u>
462.libquantum	8	<u>5508</u>	<u>30.1</u>	5510	30.1	5507	30.1	8	5491	30.2	<u>5489</u>	<u>30.2</u>	5488	30.2
464.h264ref	8	<u>821</u>	<u>216</u>	821	216	822	215	8	<u>805</u>	<u>220</u>	807	219	805	220
471.omnetpp	8	903	55.4	<u>904</u>	<u>55.3</u>	904	55.3	8	862	58.0	<u>861</u>	<u>58.1</u>	861	58.1
473.astar	8	827	67.9	<u>826</u>	<u>68.0</u>	826	68.0	8	827	67.9	<u>826</u>	<u>68.0</u>	826	68.0
483.xalancbmk	8	574	96.2	<u>574</u>	<u>96.2</u>	574	96.2	8	564	98.0	564	97.8	<u>564</u>	<u>97.9</u>

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

General Notes

The system bus runs at 1333 MHz

BIOS configuration:

Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

This result was measured on the PRIMERGY RX300 S3. The PRIMERGY RX300 S3 and the PRIMERGY TX300 S3 are electronically equivalent.

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Base Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Base Portability Flags

400.perlbench: -DSPEC_CPU_NO_NEED_VA_COPY

403.gcc: -DSPEC_CPU_WIN32

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Base Portability Flags (Continued)

464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Base Optimization Flags

C benchmarks:

-fast -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx-features -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Peak Portability Flags

400.perlbench: -DSPEC_CPU_NO_NEED_VA_COPY
403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000
shlW32M.lib -link -FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

401.bzip2: Same as 400.perlbench

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000
-link -FORCE:MULTIPLE

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
-F512000000 shlw32M.lib -link -FORCE:MULTIPLE

473.astar: basepeak = yes

483.xalancbmk: Same as 471.omnetpp

Peak 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/CPU2006_flags.20090715.09.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.09.xml



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

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