



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 136

CELSIUS R650, Intel Xeon X5460 processor

SPECint_rate_base2006 = 113

CPU2006 license: 22

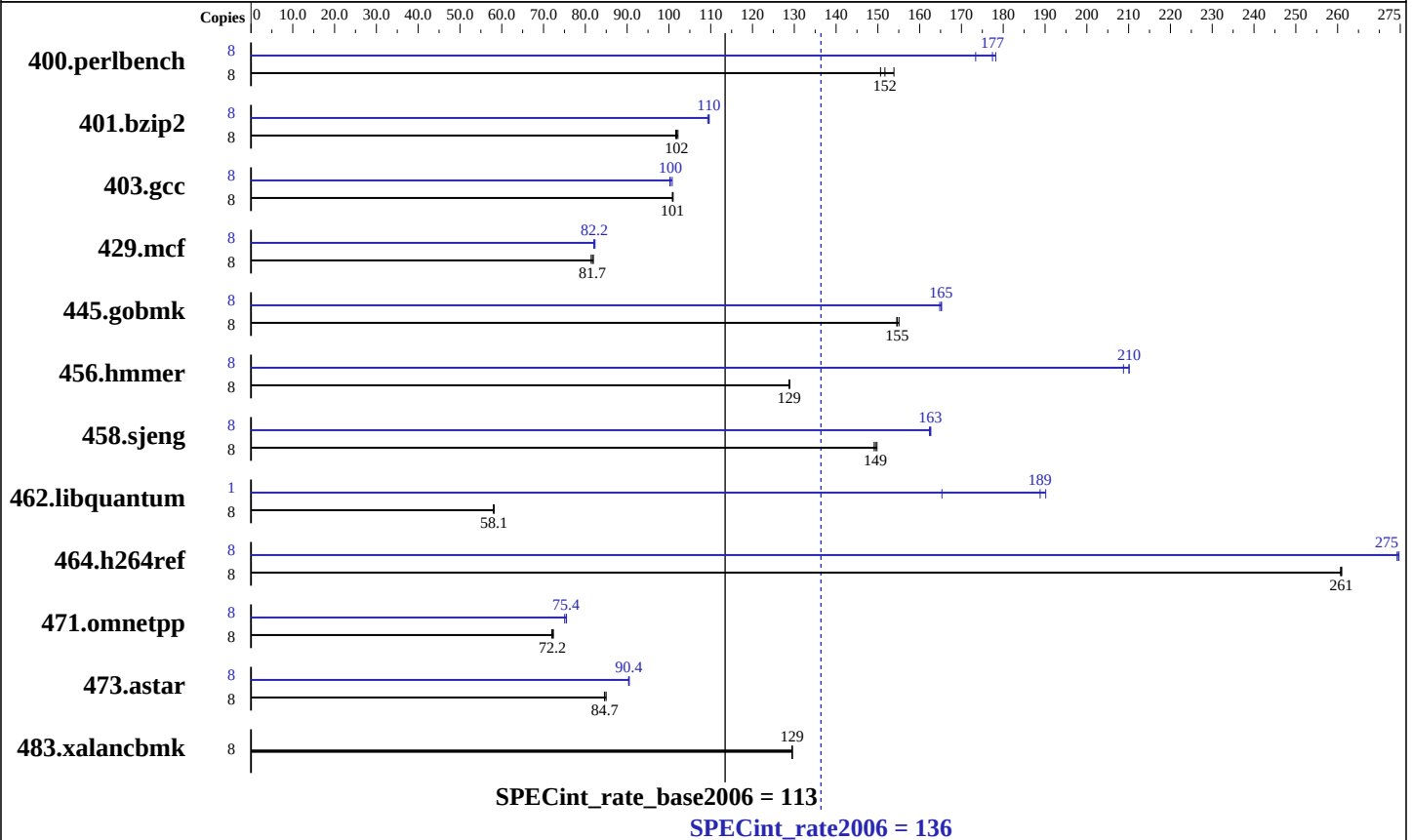
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5460
CPU Characteristics: 3166
CPU MHz: Integrated
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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache: None
Other Cache: None
Memory: 8 GB (8x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem: SATA II 7200 rpm
Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64)
kernel 2.6.16.21-0.8-smp
Compiler: Intel C++ Compiler for Linux32 and Linux64
Version 10.1 - Build 20070725
Auto Parallel: Yes
File System: ext3
System State: Multi-User, Run Level 3
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: Smart Heap Library, Version 8.1
(available from www.microquill.com)
binutils-2.17.tar.gz, Version 2.17



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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	508	154	<u>515</u>	<u>152</u>	519	151	8	451	173	<u>441</u>	<u>177</u>	439	178
401.bzip2	8	756	102	760	102	<u>758</u>	<u>102</u>	8	<u>705</u>	<u>110</u>	706	109	704	110
403.gcc	8	638	101	638	101	639	101	8	642	100	643	100	639	101
429.mcf	8	891	81.9	896	81.4	893	81.7	8	886	82.3	888	82.2	889	82.0
445.gobmk	8	543	155	541	155	543	155	8	509	165	508	165	508	165
456.hmmer	8	580	129	580	129	579	129	8	355	210	358	209	355	210
458.sjeng	8	649	149	646	150	648	149	8	596	162	596	163	595	163
462.libquantum	8	2857	58.0	2852	58.1	2851	58.1	1	110	189	125	165	109	190
464.h264ref	8	679	261	679	261	678	261	8	646	274	645	275	645	275
471.omnetpp	8	691	72.4	695	72.0	693	72.2	8	666	75.1	662	75.5	663	75.4
473.astar	8	663	84.7	664	84.6	661	85.0	8	620	90.5	621	90.4	621	90.4
483.xalancbmk	8	426	129	426	130	426	129	8	426	129	426	130	426	129

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

Platform Notes

BIOS configuration:

Enhanced Speedstep Technology = Disable

Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

SnoopFilter = Enable

General Notes

This result has been produced with binaries provided and compiled by Intel.

All binaries were built with 32-bit Intel compiler except:

401.bzip2 and 456.hmmer in peak were built with 64-bit Intel

compiler by changing the path for include and library files.

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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
473.astar: -DSPEC_CPU_LITTLE_ENDIAN
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast -inline-calloc -opt-malloc-options=3

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -wl, -z, muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

401.bzip2: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include
456.hmmer: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

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Peak Compiler Invocation (Continued)

C++ benchmarks:
icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
473.astar: -DSPEC_CPU_LITTLE_ENDIAN
483.xalanbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch
401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
403.gcc: -fast -inline-calloc -opt-malloc-options=3
429.mcf: -fast -prefetch
445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec-div -ansi-alias
456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive
458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
462.libquantum: -fast -unroll4 -O0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control
464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-wL, -z, muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

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Peak Optimization Flags (Continued)

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-wL, -z, muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

483.xalancbmk: basepeak = yes

Peak Other Flags

Same as Base Other Flags

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags-file-20070525.xml.20071009.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags-file-20070525.xml.20071009.xml>

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

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