



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY BX620 S4, Intel Xeon processor E5440, 2.83 GHz

SPECint®_rate2006 = 105

SPECint_rate_base2006 = 105

CPU2006 license: 22

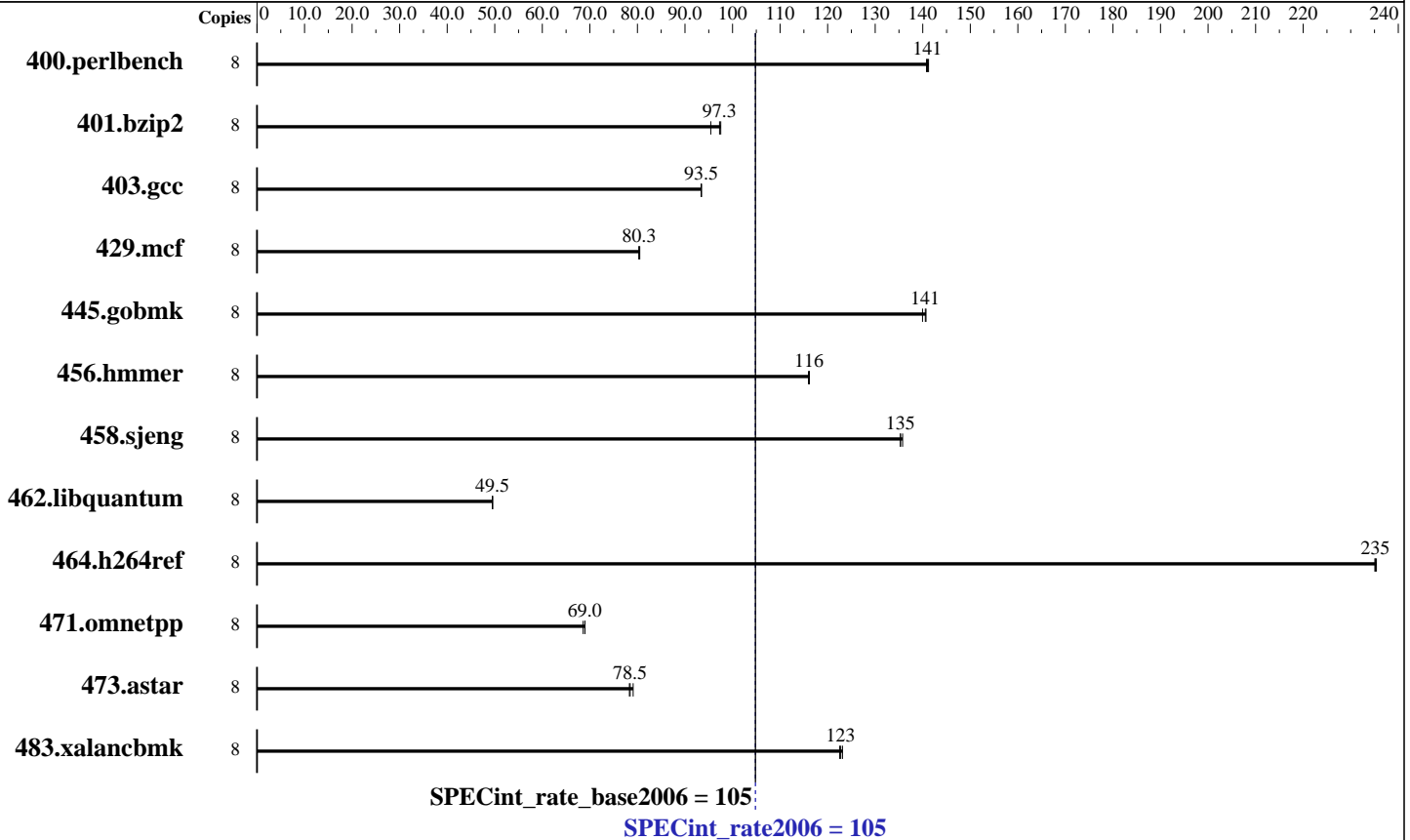
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5440
 CPU Characteristics: 1333 MHz system bus
 CPU MHz: 2833
 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: 16 GB (8x2 GB PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
 Disk Subsystem: Seagate ST973451SS (SAS, 73GB, 15000rpm)
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: Intel C++ Compiler for Linux32 and Linux64 Version 10.1 - Build 20070725
 Auto Parallel: No
 File System: ext2
 System State: Multiuser, Runlevel 3
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: Smart Heap Library, Version 8.1
 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	555	141	553	141	554	141	8	555	141	553	141	554	141
401.bzip2	8	809	95.4	794	97.3	792	97.5	8	809	95.4	794	97.3	792	97.5
403.gcc	8	689	93.5	690	93.4	689	93.5	8	689	93.5	690	93.4	689	93.5
429.mcf	8	906	80.5	908	80.3	908	80.3	8	906	80.5	908	80.3	908	80.3
445.gobmk	8	596	141	600	140	597	141	8	596	141	600	140	597	141
456.hammer	8	644	116	643	116	643	116	8	644	116	643	116	643	116
458.sjeng	8	715	135	715	135	713	136	8	715	135	715	135	713	136
462.libquantum	8	3347	49.5	3347	49.5	3347	49.5	8	3347	49.5	3347	49.5	3347	49.5
464.h264ref	8	752	235	753	235	753	235	8	752	235	753	235	753	235
471.omnetpp	8	725	69.0	729	68.6	725	69.0	8	725	69.0	729	68.6	725	69.0
473.astar	8	716	78.5	717	78.3	710	79.1	8	716	78.5	717	78.3	710	79.1
483.xalancbmk	8	448	123	450	123	450	123	8	448	123	450	123	450	123

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

General Notes

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

BIOS configuration:

Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

For information about Fujitsu Siemens Computers please see:

<http://www.fujitsu-siemens.com>

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:

`-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 Optimization Flags

C benchmarks:

`400.perlbench: basepeak = yes`

`401.bzip2: basepeak = yes`

`403.gcc: basepeak = yes`

`429.mcf: basepeak = yes`

`445.gobmk: basepeak = yes`

`456.hmmer: basepeak = yes`

`458.sjeng: basepeak = yes`

`462.libquantum: basepeak = yes`

`464.h264ref: basepeak = yes`

C++ benchmarks:

`471.omnetpp: basepeak = yes`

`473.astar: basepeak = yes`

`483.xalancbmk: basepeak = yes`



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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.20090714.06.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.20090714.06.xml>

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 13:45:11 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 11 December 2007.