



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY BX620 S3, Intel Xeon processor X5355,
2.66 GHz

SPECint®_rate2006 = 101

SPECint_rate_base2006 = 92.5

CPU2006 license: 22

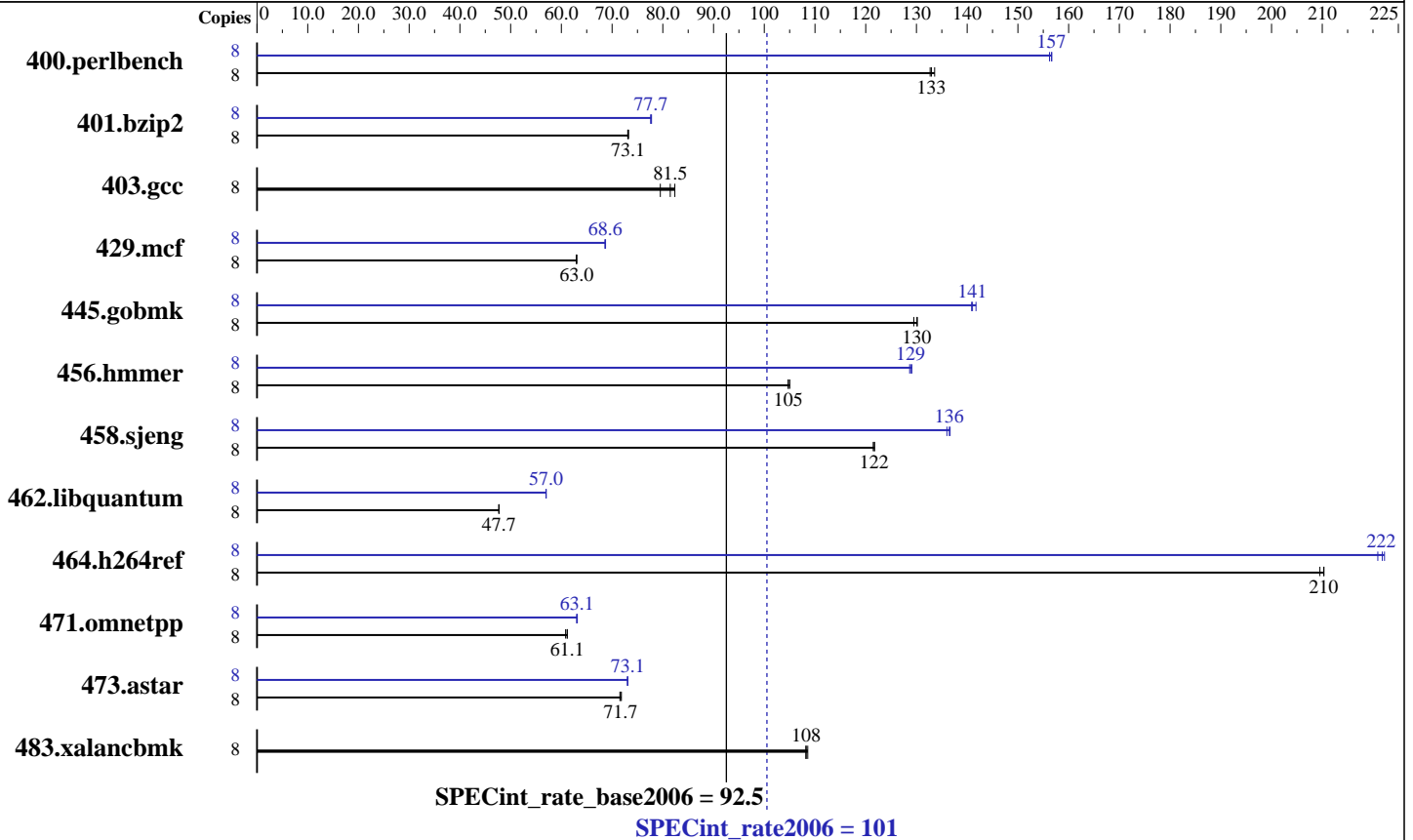
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jun-2007

Hardware Availability: Jan-2007

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333 MHz system bus
 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: SUSE LINUX Enterprise Server 10 (x86_64), Kernel 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 10.0 - Build 20070308, Package-ID: I_cc_p_10.0.023
 Auto Parallel: No
 File System: ext2
 System State: Multiuser, Runlevel 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-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	589	133	585	134	588	133	8	499	157	499	157	500	156
401.bzip2	8	1056	73.1	1056	73.1	1054	73.3	8	995	77.6	994	77.7	993	77.8
403.gcc	8	791	81.5	782	82.4	810	79.5	8	791	81.5	782	82.4	810	79.5
429.mcf	8	1158	63.0	1159	62.9	1157	63.0	8	1062	68.7	1063	68.6	1063	68.6
445.gobmk	8	645	130	645	130	648	129	8	595	141	596	141	592	142
456.hmmmer	8	713	105	711	105	713	105	8	578	129	580	129	579	129
458.sjeng	8	795	122	795	122	797	121	8	712	136	708	137	709	136
462.libquantum	8	3476	47.7	3475	47.7	3475	47.7	8	2910	57.0	2909	57.0	2908	57.0
464.h264ref	8	842	210	842	210	845	210	8	798	222	797	222	801	221
471.omnetpp	8	822	60.8	817	61.2	818	61.1	8	793	63.1	794	63.0	792	63.1
473.astar	8	784	71.7	785	71.5	782	71.8	8	769	73.0	769	73.1	769	73.1
483.xalancbmk	8	510	108	510	108	508	109	8	510	108	510	108	508	109

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

General Notes

All binaries were built with 32-bit Intel compiler except:
401.bzip2 and 456.hmmmer in peak were built with 64-bit Intel compiler by changing the path for include and library files.

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

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Base Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-xT -O3 -ipo -no-prec-div -ansi-alias

-L/opt/SmartHeap_8_1/lib -lsmarheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/cce/10.0.023/bin/icc
-I/opt/intel/cce/10.0.023/include
-L/opt/intel/cce/10.0.023/lib

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-I/opt/intel/cce/10.0.023/include
-L/opt/intel/cce/10.0.023/lib

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
483.xalancbmk: -DSPEC_CPU_LINUX



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Peak Optimization Flags

C benchmarks:

400.perlbench: -prof_gen(pass 1) -prof_use(pass 2) -fast

401.bzip2: -fast

403.gcc: basepeak = yes

429.mcf: -prof_gen(pass 1) -prof_use(pass 2) -fast -prefetch
-L/opt/SmartHeap_8_1/lib -lsmarheap

445.gobmk: Same as 400.perlbench

456.hmmer: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2

458.sjeng: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll4

462.libquantum: -prof_gen(pass 1) -prof_use(pass 2) -fast -prefetch
-opt-streaming-stores always

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) -fast -ansi-alias
-L/opt/SmartHeap_8_1/lib -lsmarheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

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/FSC_Intel_flags.html

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

http://www.spec.org/cpu2006/flags/FSC_Intel_flags.xml



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