



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY TX120, Intel Xeon processor 3070, 2.66 GHz

SPECint®_rate2006 = 30.7

SPECint_rate_base2006 = 29.3

CPU2006 license: 22

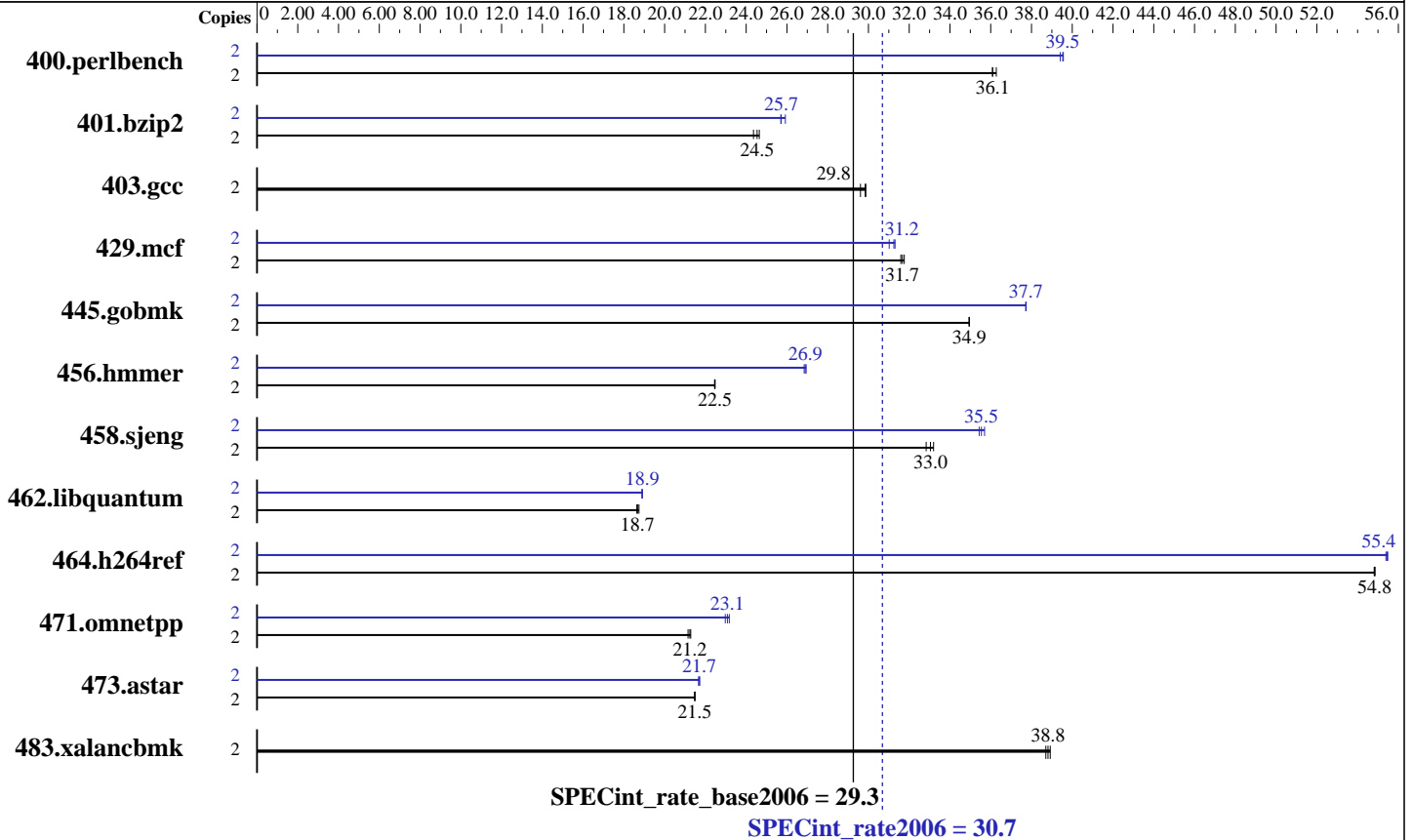
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jun-2007

Hardware Availability: May-2007

Software Availability: Mar-2007



Hardware

CPU Name: Intel Xeon 3070
 CPU Characteristics: 1067 MHz system bus
 CPU MHz: 2667
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB DDR2 PC2-4200E, 2 rank, CAS 4-4-4, with ECC)
 Disk Subsystem: Seagate ST973401SS (SAS, 73GB 10000rpm)
 Other Hardware: None

Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp on an x86_64
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 9.1 - Build 20070215, Package-ID: l_cc_p_9.1.047
 Auto Parallel: No
 File System: ReiserFS
 System State: Multiuser, Runlevel 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Smart Heap Library, Version 8.1



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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	2	541	36.1	539	36.3	541	36.1	2	494	39.6	496	39.4	494	39.5
401.bzip2	2	787	24.5	792	24.4	783	24.6	2	744	25.9	750	25.7	751	25.7
403.gcc	2	540	29.8	539	29.9	544	29.6	2	540	29.8	539	29.9	544	29.6
429.mcf	2	577	31.6	576	31.7	574	31.8	2	588	31.0	584	31.2	583	31.3
445.gobmk	2	600	34.9	600	34.9	600	34.9	2	556	37.7	556	37.7	556	37.7
456.hmmer	2	831	22.4	831	22.5	830	22.5	2	695	26.8	693	26.9	694	26.9
458.sjeng	2	732	33.0	737	32.8	729	33.2	2	683	35.4	678	35.7	681	35.5
462.libquantum	2	2211	18.7	2223	18.6	2219	18.7	2	2194	18.9	2192	18.9	2192	18.9
464.h264ref	2	807	54.8	807	54.8	807	54.9	2	799	55.4	798	55.4	798	55.5
471.omnetpp	2	587	21.3	591	21.1	589	21.2	2	542	23.1	539	23.2	544	23.0
473.astar	2	654	21.5	654	21.5	653	21.5	2	648	21.7	646	21.7	647	21.7
483.xalancbmk	2	355	38.9	357	38.7	356	38.8	2	355	38.9	357	38.7	356	38.8

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
'/usr/bin/taskset' used to bind processes to CPUs

General Notes

The system bus runs at 1067 MHz

All binaries were built with 32-bit Intel compiler except:
401.bzip2, 456.hmmer and 462.libquantum in peak were built with
64-bit Intel compiler by changing the path for include and library files.

BIOS configuration:
Adjacent Sector Prefetch = Disable

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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_X64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-xP -O3 -ipo -no-prec-div -L/opt/SmartHeap_8_1/lib -lsmartheap

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/cce/9.1.047/bin/icc
-I/opt/intel/cce/9.1.047/include
-L/opt/intel/cce/9.1.047/lib

456.hmmer: /opt/intel/cce/9.1.047/bin/icc
-I/opt/intel/cce/9.1.047/include
-L/opt/intel/cce/9.1.047/lib

462.libquantum: /opt/intel/cce/9.1.047/bin/icc
-I/opt/intel/cce/9.1.047/include
-L/opt/intel/cce/9.1.047/lib

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -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
-L/opt/SmartHeap_8_1/lib -lsmartheap

445.gobmk: Same as 429.mcf

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 429.mcf

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 429.mcf

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -xP -O3 -ipo
-no-prec-div -L/opt/SmartHeap_8_1/lib -lsmartheap

473.astar: -prof_gen(pass 1) -prof_use(pass 2) -fast
-L/opt/SmartHeap_8_1/lib -lsmartheap

483.xalancbmk: basepeak = yes

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.xml

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

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