



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX100 S5, Intel Xeon X3220, 2.40 GHz

SPECint_rate2006 = 59.1

CPU2006 license: 22

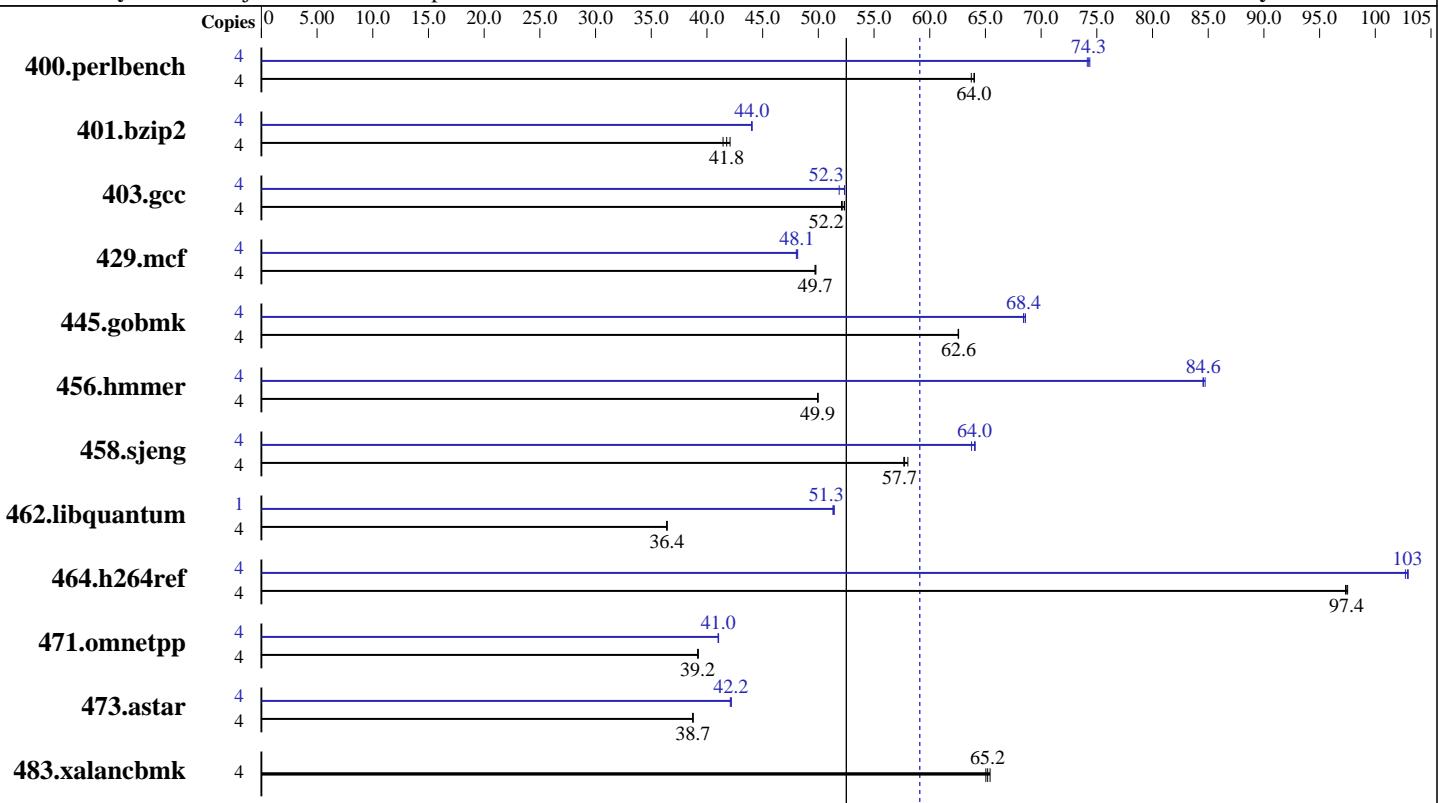
Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers



SPECint_rate_base2006 = 52.5

SPECint_rate2006 = 59.1

Hardware

CPU Name:	Intel Xeon X3220
CPU Characteristics:	1066 MHz system bus
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
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:	8 GB (4x2 GB PC2-6400E, 2 rank, CAS 6-6-6, with ECC)
Disk Subsystem:	Western Digital WD5000AAKS (SATA, 500GB, 7200rpm)
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:	Yes
File System:	ext2
System State:	Multiuser, Runlevel 3
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap 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	4	611	64.0	610	64.0	613	63.7	4	527	74.1	526	74.3	525	74.4
401.bzip2	4	931	41.4	917	42.1	924	41.8	4	877	44.0	876	44.0	876	44.0
403.gcc	4	617	52.2	615	52.3	618	52.1	4	615	52.4	621	51.9	615	52.3
429.mcf	4	733	49.8	734	49.7	734	49.7	4	760	48.0	758	48.1	759	48.1
445.gobmk	4	670	62.6	671	62.5	670	62.6	4	612	68.6	613	68.4	613	68.4
456.hammer	4	747	49.9	747	49.9	747	50.0	4	441	84.6	441	84.5	440	84.7
458.sjeng	4	838	57.7	839	57.7	834	58.0	4	756	64.0	759	63.8	755	64.1
462.libquantum	4	2278	36.4	2275	36.4	2276	36.4	1	404	51.3	404	51.3	403	51.4
464.h264ref	4	908	97.5	910	97.3	908	97.4	4	860	103	860	103	862	103
471.omnetpp	4	638	39.2	638	39.2	637	39.2	4	609	41.0	609	41.0	610	41.0
473.astar	4	725	38.7	724	38.8	725	38.7	4	666	42.2	666	42.2	667	42.1
483.xalancbmk	4	422	65.4	423	65.2	424	65.0	4	422	65.4	423	65.2	424	65.0

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

Operating System Notes

'OMP_NUM_THREADS' set to number of cores (default)

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.hammer 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



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

462.libquantum: -DSPEC_CPU_LINUX

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/cmpllr/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/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

456.hmmr: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

401.bzip2: -DSPEC_CPU_LP64

456.hmmr: -DSPEC_CPU_LP64

462.libquantum: -DSPEC_CPU_LINUX

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Peak Portability Flags (Continued)

483.xalancbmk: -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 -unroll12 -ansi-alias -opt-multi-version-aggressive  
  
458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4  
  
462.libquantum: -fast -unroll14 -Ob0 -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 -unroll12  
                  -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  
  
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



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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/Intel-ic10.1-INT-ia32-linux-flags.20090713.02.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-INT-ia32-linux-flags.20090713.02.xml>

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

Tested with SPEC CPU2006 v1.0.

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