



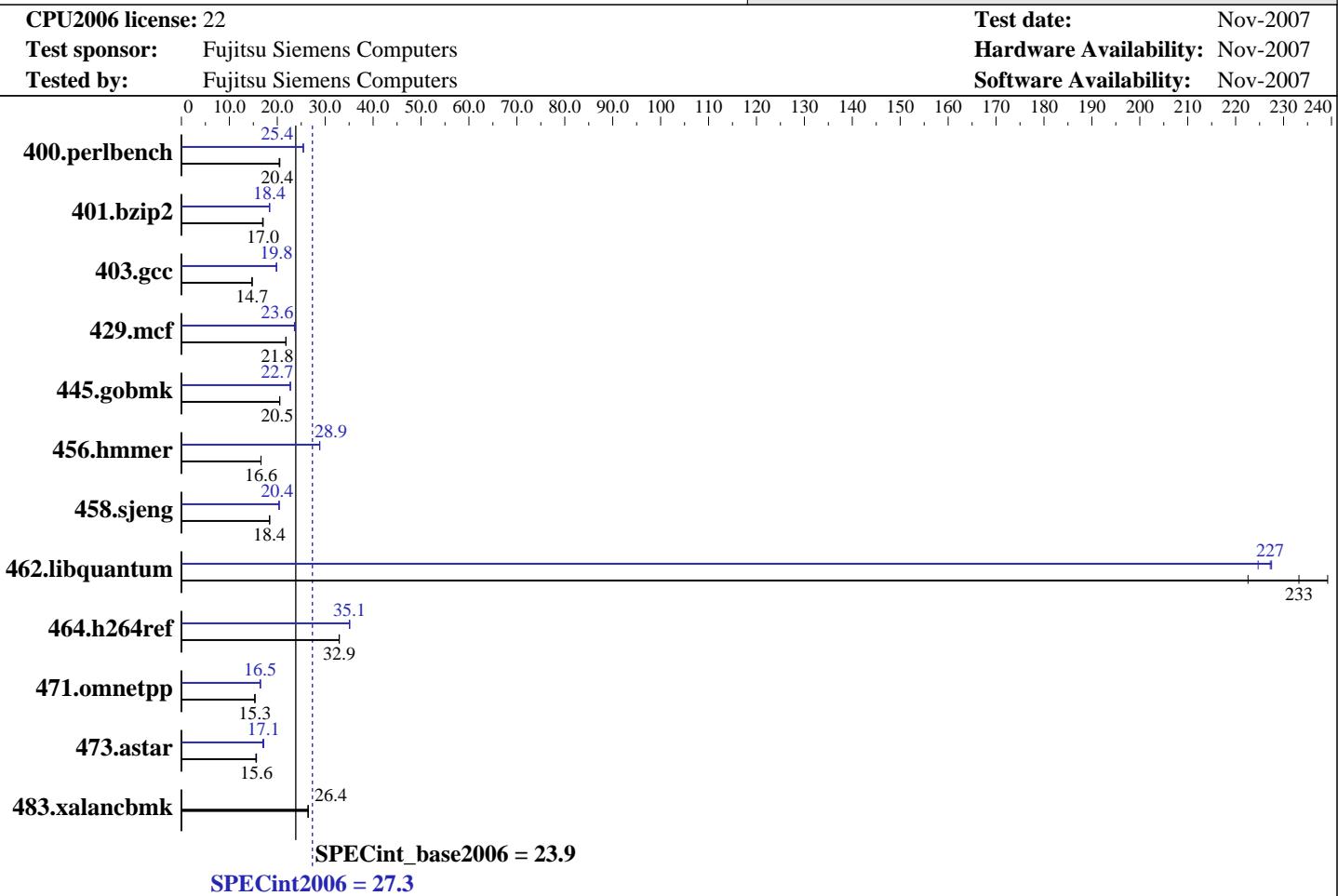
SPEC® CINT2006 Result

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Fujitsu Siemens Computers

CELSIUS R650, Intel Xeon X5460 processor

SPECint®2006 = 27.3



Hardware		Software	
CPU Name:	Intel Xeon X5460	Operating System:	SuSE Linux Enterprise Server 10 (x86_64)
CPU Characteristics:		Compiler:	kernel 2.6.16.21-0.8-smp
CPU MHz:	3166	Auto Parallel:	Intel C++ Compiler for Linux32 and Linux64
FPU:	Integrated	File System:	version 10.1
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip	System State:	Build 20070824
CPU(s) orderable:	1,2 chips	Base Pointers:	Yes
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	ext3
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores	Other Software:	Multi-User, Run Level 3
L3 Cache:	None		32-bit
Other Cache:	None		32/64-bit
Memory:	8 GB (8x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)		Smart Heap Library, Version 8.1
Disk Subsystem:	SATA II 7200 rpm		(available from www.microquill.com)
Other Hardware:	None		binutils-2.17.tar.gz, Version 2.17



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CPU2006 license: 22

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Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2007

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	478	20.4	478	20.4	476	20.5	385	25.4	384	25.4	384	25.5
401.bzip2	570	16.9	566	17.0	567	17.0	525	18.4	524	18.4	525	18.4
403.gcc	546	14.7	545	14.8	547	14.7	406	19.8	405	19.9	406	19.8
429.mcf	418	21.8	418	21.8	418	21.8	387	23.6	386	23.6	385	23.7
445.gobmk	512	20.5	511	20.5	511	20.5	462	22.7	462	22.7	461	22.7
456.hammer	562	16.6	562	16.6	562	16.6	323	28.9	323	28.9	323	28.9
458.sjeng	658	18.4	658	18.4	658	18.4	594	20.4	594	20.4	593	20.4
462.libquantum	93.1	223	88.8	233	86.6	239	92.2	225	91.1	228	91.2	227
464.h264ref	671	33.0	673	32.9	672	32.9	630	35.1	631	35.1	631	35.1
471.omnetpp	408	15.3	408	15.3	407	15.4	380	16.5	380	16.4	379	16.5
473.astar	448	15.7	449	15.6	452	15.5	409	17.2	410	17.1	413	17.0
483.xalancbmk	261	26.4	261	26.5	261	26.4	261	26.4	261	26.5	261	26.4

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 = Enable, Adjacent Sector Prefetch = Enable

SnoopFilter = Disable

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.

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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
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast -vec-guard-write -parallel -par-runtime-control

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/20070824/Linux64/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/include

456.hmmr: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/include

C++ benchmarks:
icpc



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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
```

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
               -auto-ilp32

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
               -auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll14 -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 -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
```

Continued on next page



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Peak Optimization Flags (Continued)

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/Intel-ic10-ia32-intel64-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-ia32-intel64-linux-flags.20090713.02.xml>

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