



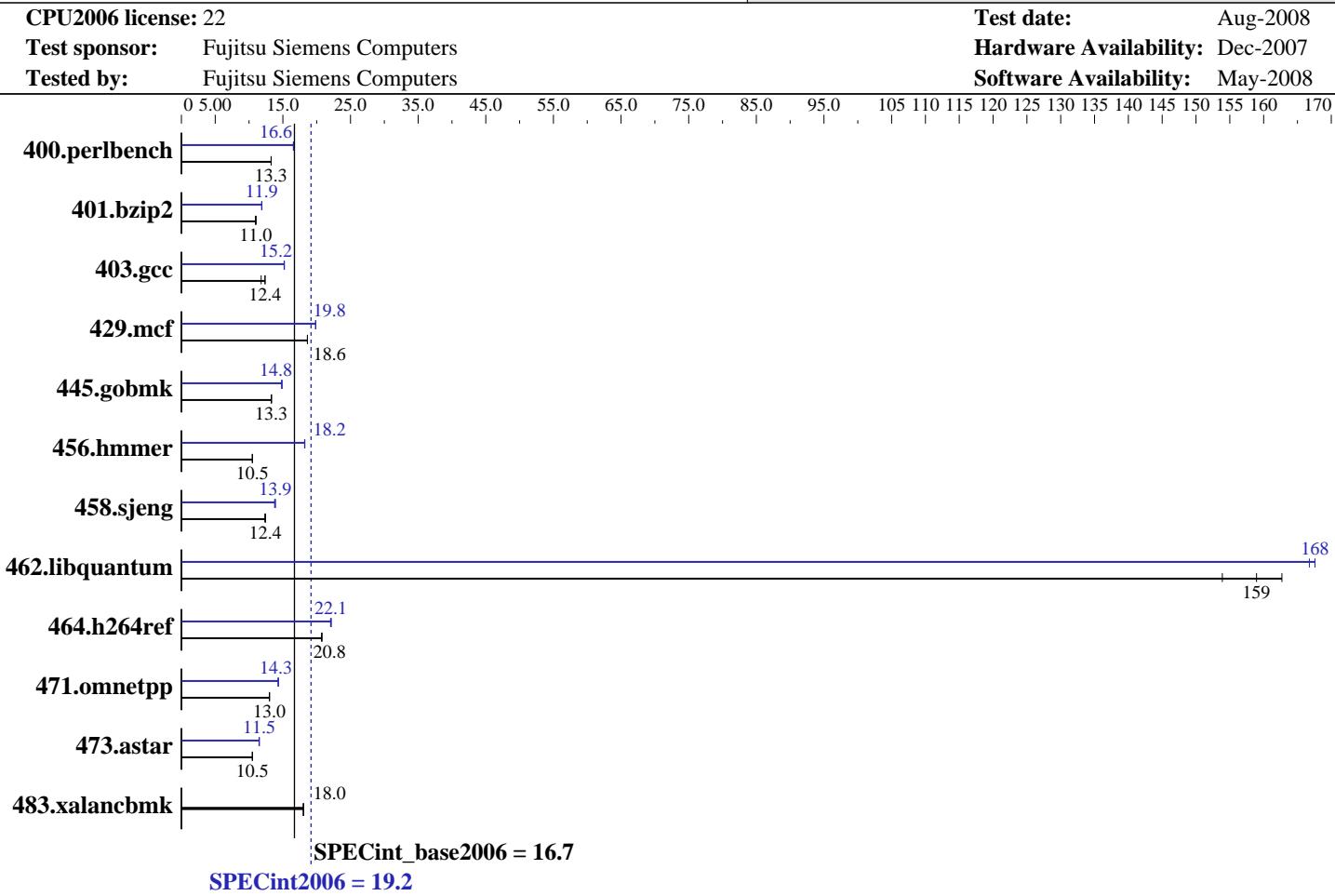
SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX200 S4, Intel Xeon E5405, 2.0 GHz

SPECint®2006 = 19.2



Hardware		Software	
CPU Name:	Intel Xeon E5405	Operating System:	SuSE Linux Enterprise Server 10 (x86_64) with SP2, kernel 2.6.16.60-0.21-smp
CPU Characteristics:	1333 MHz system bus	Compiler:	Intel C++ Compiler for Linux32 and Linux64, Version 10.1, Build 20070913
CPU MHz:	2000	Auto Parallel:	Yes
FPU:	Integrated	File System:	ext3
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip	System State:	Multi-User Run Level 3
CPU(s) orderable:	1,2 chips	Base Pointers:	32-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores	Other Software:	Microquill SmartHeap Library, Version 8.1 binutils-2.17.50.0.5-0.1.x86_64
L3 Cache:	None		
Other Cache:	None		
Memory:	16 GB (8x2 GB PC2-5300F, 2 rank, CL 5-5-5, ECC)		
Disk Subsystem:	1x SAS, 73 GB, 15000 rpm		
Other Hardware:	None		



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Hardware Availability: Dec-2007

Tested by: Fujitsu Siemens Computers

Software Availability: May-2008

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	737	13.3	736	13.3	736	13.3	590	16.6	589	16.6	590	16.6
401.bzip2	882	10.9	876	11.0	875	11.0	812	11.9	813	11.9	811	11.9
403.gcc	683	11.8	651	12.4	651	12.4	530	15.2	529	15.2	529	15.2
429.mcf	489	18.6	490	18.6	489	18.6	460	19.8	459	19.9	459	19.8
445.gobmk	789	13.3	788	13.3	789	13.3	707	14.8	706	14.8	706	14.8
456.hammer	889	10.5	889	10.5	889	10.5	512	18.2	512	18.2	511	18.2
458.sjeng	980	12.3	975	12.4	973	12.4	878	13.8	871	13.9	872	13.9
462.libquantum	127	163	135	154	130	159	124	167	124	168	124	168
464.h264ref	1066	20.8	1066	20.8	1067	20.7	999	22.2	1003	22.1	1001	22.1
471.omnetpp	480	13.0	480	13.0	480	13.0	436	14.3	437	14.3	436	14.3
473.astar	669	10.5	669	10.5	669	10.5	610	11.5	612	11.5	610	11.5
483.xalancbmk	383	18.0	382	18.1	383	18.0	383	18.0	382	18.1	383	18.0

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

Compiler Invocation Notes

All binaries were built with 32-bit Intel compiler except:
401.bzip2 and 456.hammer in peak were built with 64-bit Intel compiler.

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
OMP_NUM_THREADS set to number of cores (default)

Platform Notes

BIOS configuration:
Hardware Prefetch = Enable, Adjacent Sector Prefetch = Enable

General Notes

For information about Fujitsu Siemens Computers please see:
<http://www.fujitsu-siemens.com>

Base Compiler Invocation

C benchmarks:

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include
```

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Base Compiler Invocation (Continued)

C++ benchmarks:

```
/opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

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/opt/SmartHeap_8.1/lib -lsmartheap
```

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

401.bzip2: icc

456.hmmmer: icc

C++ benchmarks:

```
/opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```



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SPECint_base2006 = 16.7

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/opt/SmartHeap_8.1/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/opt/SmartHeap_8.1/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/flags-ic101-linux-intel64.html>

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

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.xml>

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