



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY TX300 S4, Intel Xeon X5270, 3.50 GHz

SPECint_rate2006 = 90.7

CPU2006 license: 22

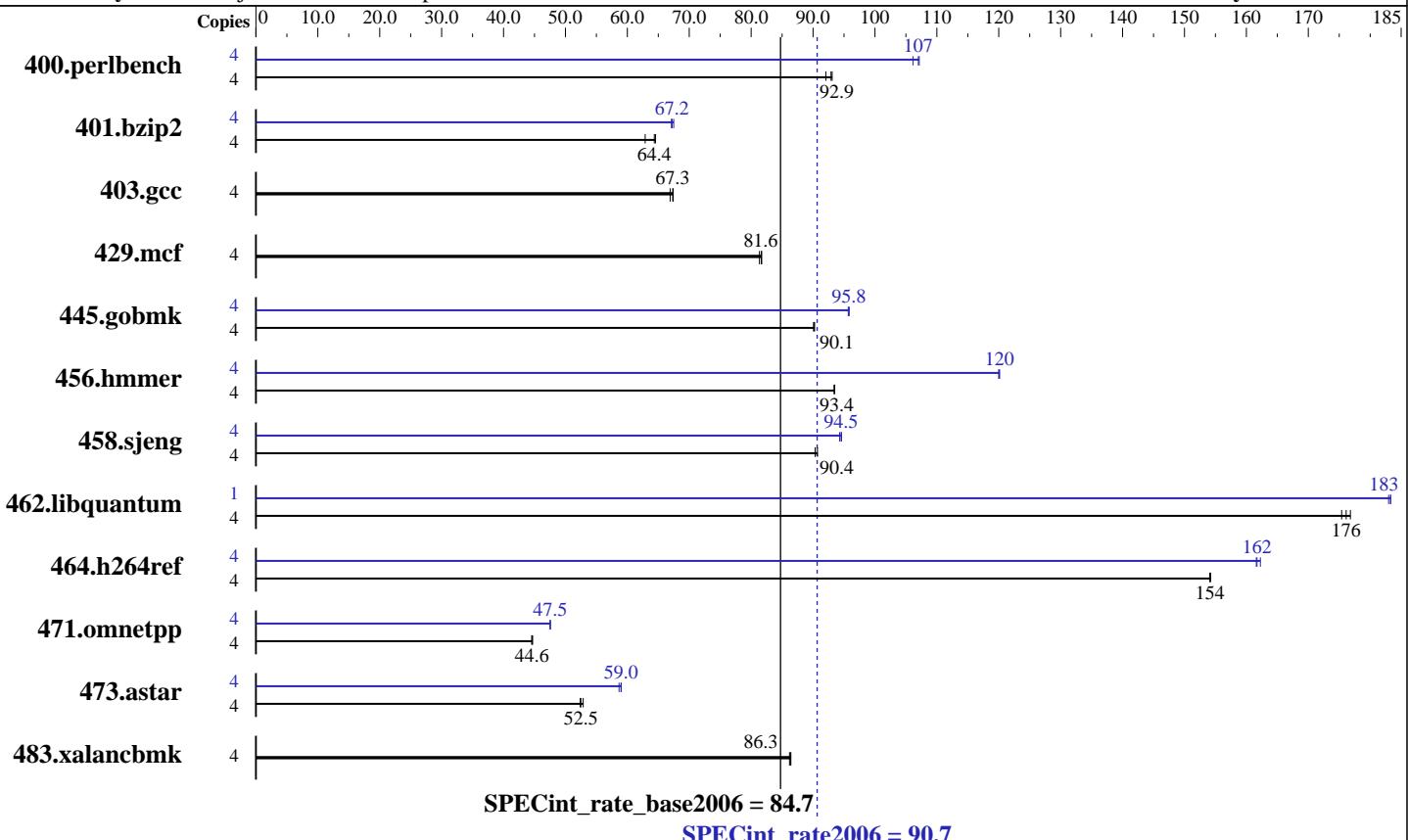
Test date: Oct-2008

Hardware Availability: Oct-2008

Software Availability: Nov-2008

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers



Hardware

CPU Name: Intel Xeon X5270
CPU Characteristics: 1333 MHz system bus
CPU MHz: 3500
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 6 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem: 1x SATA, 160 GB, 7200 rpm
Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60-0.21-smp
Compiler: Intel C++ Compiler 11.0 for Linux Build 20080730 Package ID: l_cproc_b_11.0.042
Auto Parallel: Yes
File System: ext3
System State: Multi-User Run Level 3
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: Microquill SmartHeap Library, Version 8.1 Binutils 2.18.50.0.7.20080502



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SPECint_rate_base2006 = 84.7

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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	420	93.1	421	92.9	424	92.1	4	368	106	365	107	365	107
401.bzip2	4	600	64.4	614	62.9	598	64.5	4	574	67.2	572	67.5	575	67.1
403.gcc	4	478	67.3	478	67.4	481	66.9	4	478	67.3	478	67.4	481	66.9
429.mcf	4	448	81.3	447	81.7	447	81.6	4	448	81.3	447	81.7	447	81.6
445.gobmk	4	466	90.1	466	90.1	465	90.2	4	438	95.8	438	95.8	439	95.7
456.hammer	4	399	93.4	399	93.5	399	93.4	4	311	120	311	120	311	120
458.sjeng	4	536	90.3	536	90.4	534	90.7	4	513	94.3	512	94.6	512	94.5
462.libquantum	4	473	175	471	176	469	177	1	113	183	113	183	113	183
464.h264ref	4	574	154	574	154	574	154	4	547	162	546	162	548	162
471.omnetpp	4	561	44.6	559	44.7	561	44.6	4	526	47.5	526	47.6	526	47.5
473.astar	4	536	52.4	535	52.5	531	52.9	4	476	59.0	476	59.0	479	58.7
483.xalancbmk	4	319	86.4	320	86.3	320	86.2	4	319	86.4	320	86.3	320	86.2

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

Submit Notes

The config file option 'submit' was used.
taskset has been used to bind processes to cores except
for 462.libquantum peak

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
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 64M

Platform Notes

BIOS configuration:
Adjacent Sector Prefetch = Disable
Memory Throttling = Enable

General Notes

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



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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:

-xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch

C++ benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/Compiler/11.0/042/bin/intel64/icc
-L/opt/intel/Compiler/11.0/042/ipp/em64t/lib
-I/opt/intel/Compiler/11.0/042/ipp/em64t/include

456.hmmr: /opt/intel/Compiler/11.0/042/bin/intel64/icc
-L/opt/intel/Compiler/11.0/042/ipp/em64t/lib
-I/opt/intel/Compiler/11.0/042/ipp/em64t/include

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Peak Compiler Invocation (Continued)

C++ benchmarks:
icpc

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
    401.bzip2: -DSPEC_CPU_LP64
    456.hmmmer: -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) -xSSE4.1 -ipo -O3
    -no-prec-div -static -ansi-alias -opt-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
    -no-prec-div -static -opt-prefetch -ansi-alias

403.gcc: basepeak = yes

429.mcf: basepeak = yes

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -O2 -ipo
    -no-prec-div -ansi-alias

456.hmmmer: -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll12
    -ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
    -no-prec-div -static -unroll14

462.libquantum: -xSSE4.1 -ipo -O3 -no-prec-div -static
    -opt-malloc-options=3 -parallel -par-runtime-control
    -opt-prefetch

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
    -no-prec-div -static -unroll12 -ansi-alias
```

C++ benchmarks:

```
471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
    -no-prec-div -ansi-alias -opt-ra-region-strategy=block
    -Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap
```

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Peak Optimization Flags (Continued)

```
473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
          -no-prec-div -ansi-alias -opt-ra-region-strategy=routine  
          -Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap
```

```
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-ic11.0-int-linux64-revA.20090713.12.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090713.12.xml>

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

Tested with SPEC CPU2006 v1.1.

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