



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 77.6

PRIMERGY TX150 S6, Intel Xeon X3370, 3.0 GHz

SPECint_rate_base2006 = 66.2

CPU2006 license: 22

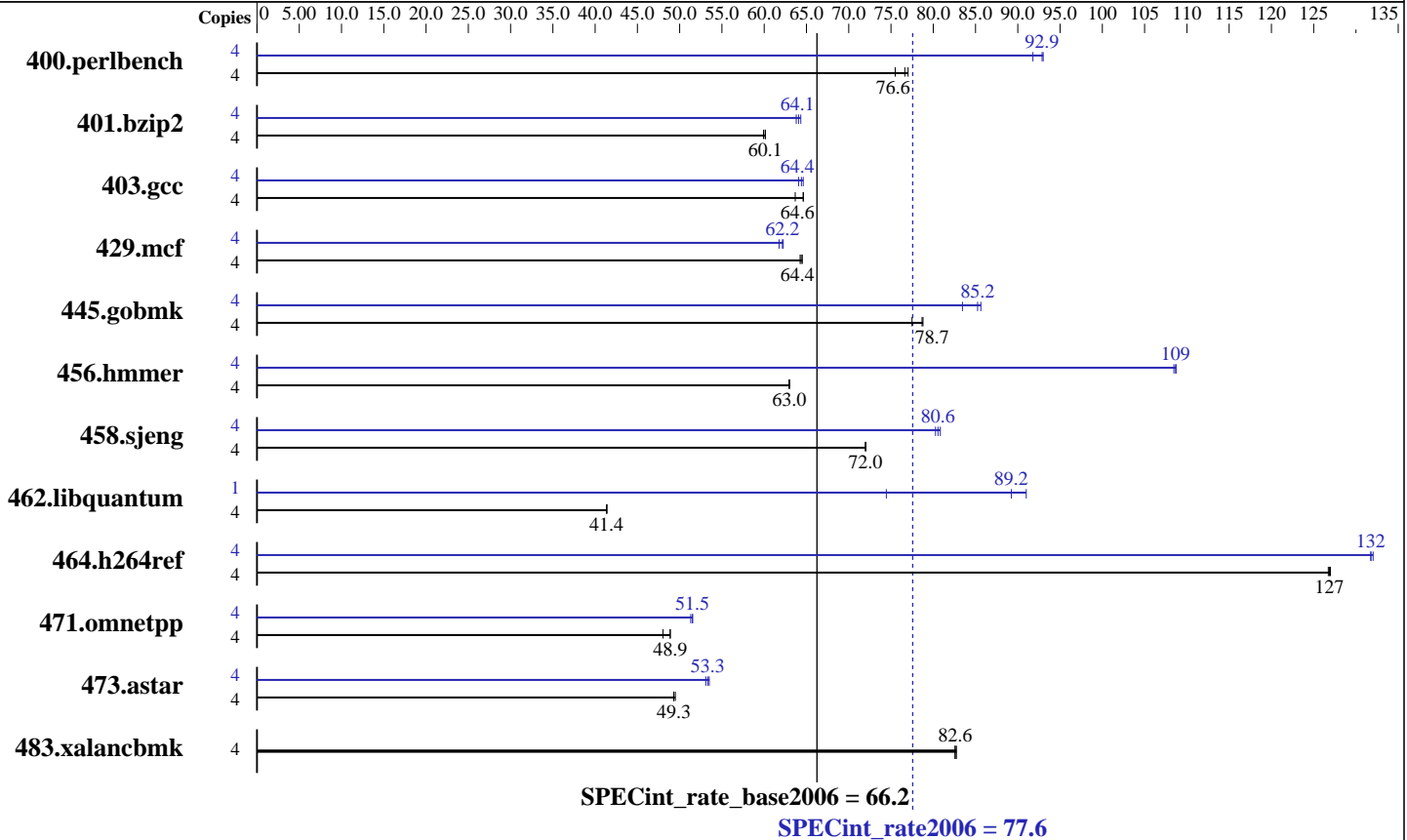
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jul-2008

Hardware Availability: Oct-2008

Software Availability: May-2008



Hardware

CPU Name: Intel Xeon X3370
 CPU Characteristics: 1333 MHz system bus
 CPU MHz: 3000
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB PC2-6400E, 2 rank, CL 6-6-6, ECC)
 Disk Subsystem: 1x SATA, 80 GB, 7200 rpm
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64) with SP2, kernel 2.6.16.60-0.21-smp
 Compiler: Intel C++ Compiler for Linux32 and Linux64, Version 10.1, Build 20070913
 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-2.17.50.0.5-0.1.x86_64



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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	507	77.0	<u>510</u>	<u>76.6</u>	518	75.5	4	<u>421</u>	<u>92.9</u>	420	93.0	426	91.8
401.bzip2	4	644	59.9	642	60.1	<u>642</u>	<u>60.1</u>	4	600	64.3	605	63.8	<u>603</u>	<u>64.1</u>
403.gcc	4	498	64.6	<u>498</u>	<u>64.6</u>	506	63.7	4	503	64.1	<u>500</u>	<u>64.4</u>	498	64.6
429.mcf	4	568	64.2	<u>567</u>	<u>64.4</u>	565	64.5	4	591	61.8	586	62.3	<u>587</u>	<u>62.2</u>
445.gobmk	4	542	77.5	<u>533</u>	<u>78.7</u>	533	78.8	4	503	83.5	<u>492</u>	<u>85.2</u>	490	85.6
456.hmmer	4	593	62.9	592	63.0	<u>593</u>	<u>63.0</u>	4	344	108	<u>343</u>	<u>109</u>	343	109
458.sjeng	4	672	72.0	<u>672</u>	<u>72.0</u>	672	72.0	4	<u>601</u>	<u>80.6</u>	599	80.8	603	80.3
462.libquantum	4	2004	41.4	2002	41.4	<u>2004</u>	<u>41.4</u>	1	<u>232</u>	<u>89.2</u>	228	91.0	278	74.4
464.h264ref	4	<u>698</u>	<u>127</u>	699	127	697	127	4	670	132	<u>672</u>	<u>132</u>	672	132
471.omnetpp	4	521	48.0	511	48.9	<u>511</u>	<u>48.9</u>	4	485	51.5	487	51.3	<u>485</u>	<u>51.5</u>
473.astar	4	570	49.3	567	49.5	<u>569</u>	<u>49.3</u>	4	<u>526</u>	<u>53.3</u>	525	53.5	529	53.1
483.xalancbmk	4	334	82.7	334	82.6	<u>334</u>	<u>82.6</u>	4	334	82.7	334	82.6	<u>334</u>	<u>82.6</u>

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.hmmer 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 = Disable, Adjacent Sector Prefetch = Disable

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 -inline-alloc -opt-malloc-options=3
```

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.hmmer: 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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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

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 -unroll2 -ansi-alias -opt-multi-version-aggressive

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

462.libquantum: -fast -unroll4 -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 -unroll2
             -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 -lsmarheap

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 -lsmarheap

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

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