



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 82.2

CELSIUS R640, Intel Xeon X5355 processor

SPECint_rate_base2006 = 79.9

CPU2006 license: 22

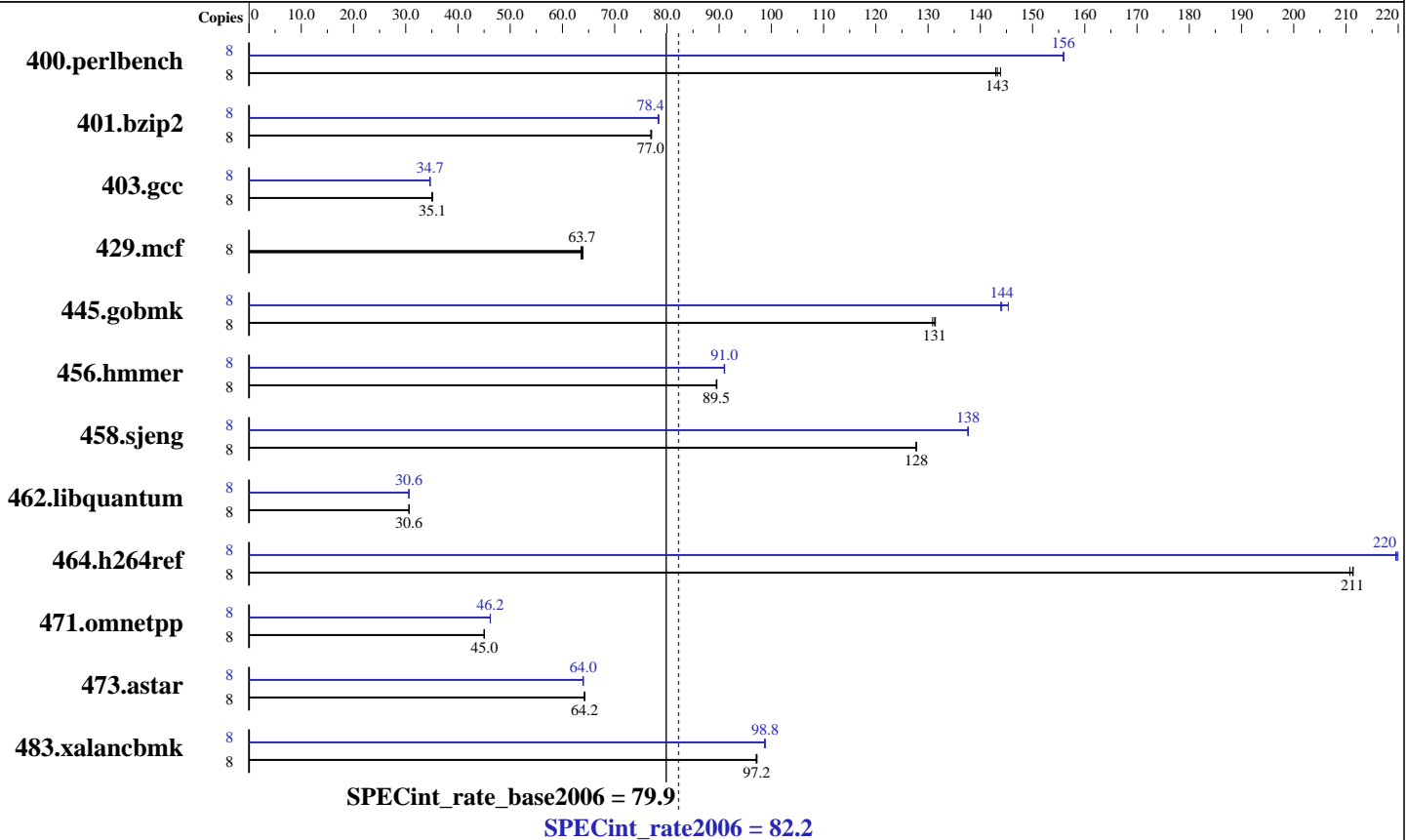
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Jan-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: Dual Core, 2.66 GHz
 CPU MHz: 2667
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 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: 16 GB (8x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: SATA II 7200 rpm
 Other Hardware: None

Software

Operating System: Windows XP, 64 bit Edition
 Compiler: Intel C++ Compiler for 32-bit applications, - version 9.1, Build 20070109Z
 Microsoft Visual Studio .NET 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 8.0



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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 | 8 | 547 | 143 | 543 | 144 | 546 | 143 | 8 | 501 | 156 | 501 | 156 | 501 | 156 |
| 401.bzip2 | 8 | 1003 | 76.9 | 1002 | 77.1 | 1003 | 77.0 | 8 | 986 | 78.3 | 985 | 78.4 | 984 | 78.5 |
| 403.gcc | 8 | 1833 | 35.1 | 1835 | 35.1 | 1840 | 35.0 | 8 | 1861 | 34.6 | 1857 | 34.7 | 1857 | 34.7 |
| 429.mcf | 8 | 1145 | 63.7 | 1148 | 63.6 | 1141 | 63.9 | 8 | 1145 | 63.7 | 1148 | 63.6 | 1141 | 63.9 |
| 445.gobmk | 8 | 641 | 131 | 639 | 131 | 639 | 131 | 8 | 577 | 145 | 582 | 144 | 583 | 144 |
| 456.hammer | 8 | 834 | 89.5 | 833 | 89.6 | 834 | 89.5 | 8 | 821 | 91.0 | 820 | 91.1 | 820 | 91.0 |
| 458.sjeng | 8 | 758 | 128 | 758 | 128 | 758 | 128 | 8 | 703 | 138 | 703 | 138 | 703 | 138 |
| 462.libquantum | 8 | 5412 | 30.6 | 5409 | 30.6 | 5410 | 30.6 | 8 | 5417 | 30.6 | 5416 | 30.6 | 5412 | 30.6 |
| 464.h264ref | 8 | 838 | 211 | 840 | 211 | 837 | 211 | 8 | 806 | 220 | 806 | 220 | 805 | 220 |
| 471.omnetpp | 8 | 1110 | 45.1 | 1111 | 45.0 | 1110 | 45.0 | 8 | 1082 | 46.2 | 1083 | 46.2 | 1082 | 46.2 |
| 473.astar | 8 | 875 | 64.2 | 874 | 64.2 | 873 | 64.3 | 8 | 877 | 64.0 | 879 | 63.9 | 878 | 64.0 |
| 483.xalancbmk | 8 | 569 | 97.1 | 568 | 97.2 | 568 | 97.2 | 8 | 559 | 98.7 | 559 | 98.8 | 559 | 98.8 |

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

Platform Notes

BIOS default settings have been used, except:
High Bandwith Option Enabled

General Notes

'start /b /wait /affinity' command is used to bind CPU(s) to processes
For information about Fujitsu Siemens Computers in your country please see:
<http://www.fujitsu-siemens.com/countries>

Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
473.astar: -DSPEC_CPU_LITTLE_ENDIAN



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Base Optimization Flags

C benchmarks:

```
-fast -F512000000 shlw32M.lib -link -FORCE:MULTIPLE
```

C++ benchmarks:

```
-fast -Qcxx-features -F512000000 shlw32M.lib -link -FORCE:MULTIPLE
```

Peak Optimization Flags

C benchmarks:

```
400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000  
shlw32M.lib -link -FORCE:MULTIPLE
```

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

```
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features  
-F512000000 shlw32M.lib -link -FORCE:MULTIPLE
```

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/CPU2006_flags.20070307.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20070307.xml



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