



SPEC® CINT2006 Result

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Fujitsu Siemens Computers ESPRIMO P5730

SPECint®_rate2006 = 27.4

SPECint_rate_base2006 = 25.0

CPU2006 license: 22

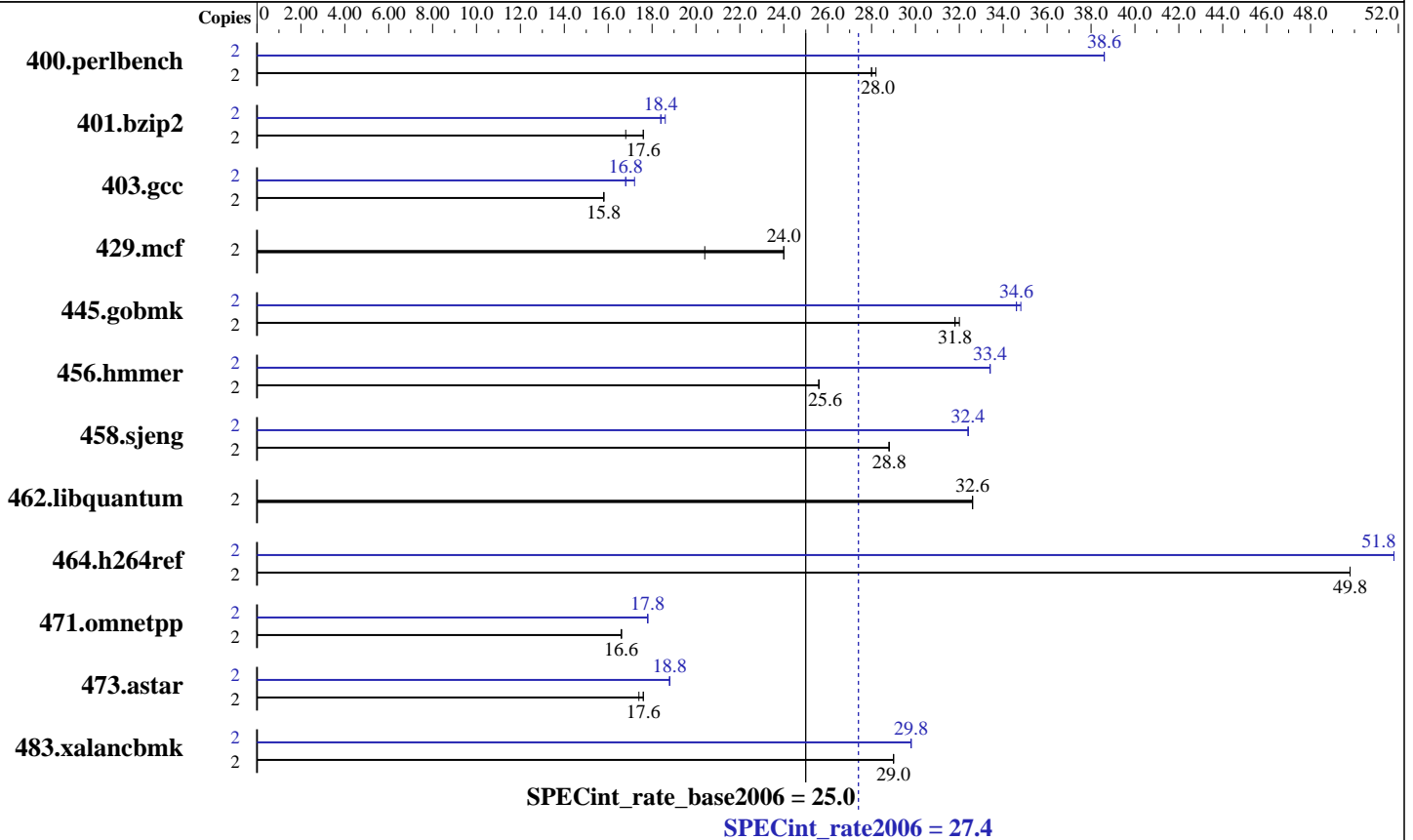
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2009

Hardware Availability: Oct-2008

Software Availability: Feb-2008



Hardware

CPU Name: Intel Pentium E5200
 CPU Characteristics:
 CPU MHz: 2500
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2x1 GB PC2-6400U-666-12 SDRAM)
 Disk Subsystem: 1 x 250 GB SATA, 7200 RPM
 Other Hardware: None

Software

Operating System: Windows XP Professional x64 Edition SP2
 Compiler: Intel C++ Compiler for applications running on IA-32, Version 10.1, Build 20080212
 Intel C++ Compiler for applications running on Intel 64, Version 10.1, Build 20080212
 Microsoft Visual Studio 2005 with SP1 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap Library Version 9 from <http://www.microquill.com/>



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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 | 2 | 697 | 28.0 | 696 | 28.0 | 695 | 28.2 | 2 | 507 | 38.6 | 506 | 38.6 | 507 | 38.6 |
| 401.bzip2 | 2 | 1156 | 16.8 | 1093 | 17.6 | 1091 | 17.6 | 2 | 1036 | 18.6 | 1049 | 18.4 | 1050 | 18.4 |
| 403.gcc | 2 | 1023 | 15.8 | 1022 | 15.8 | 1018 | 15.8 | 2 | 958 | 16.8 | 953 | 16.8 | 931 | 17.2 |
| 429.mcf | 2 | 895 | 20.4 | 762 | 24.0 | 761 | 24.0 | 2 | 895 | 20.4 | 762 | 24.0 | 761 | 24.0 |
| 445.gobmk | 2 | 658 | 31.8 | 654 | 32.0 | 658 | 31.8 | 2 | 607 | 34.6 | 603 | 34.8 | 606 | 34.6 |
| 456.hammer | 2 | 726 | 25.6 | 726 | 25.6 | 726 | 25.6 | 2 | 559 | 33.4 | 559 | 33.4 | 560 | 33.4 |
| 458.sjeng | 2 | 841 | 28.8 | 840 | 28.8 | 840 | 28.8 | 2 | 748 | 32.4 | 748 | 32.4 | 749 | 32.4 |
| 462.libquantum | 2 | 1273 | 32.6 | 1270 | 32.6 | 1268 | 32.6 | 2 | 1273 | 32.6 | 1270 | 32.6 | 1268 | 32.6 |
| 464.h264ref | 2 | 891 | 49.8 | 889 | 49.8 | 890 | 49.8 | 2 | 854 | 51.8 | 856 | 51.8 | 856 | 51.8 |
| 471.omnetpp | 2 | 755 | 16.6 | 755 | 16.6 | 756 | 16.6 | 2 | 706 | 17.8 | 706 | 17.8 | 706 | 17.8 |
| 473.astar | 2 | 798 | 17.6 | 799 | 17.6 | 803 | 17.4 | 2 | 745 | 18.8 | 747 | 18.8 | 746 | 18.8 |
| 483.xalancbmk | 2 | 477 | 29.0 | 475 | 29.0 | 476 | 29.0 | 2 | 465 | 29.8 | 464 | 29.8 | 464 | 29.8 |

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

Operating System Notes

Screen Saver was disabled

Power scheme was modified to Always On; Turn off monitor: Never; Turn off hard disks: Never

Platform Notes

BIOS default settings have been used.

General Notes

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

Base Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8



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Base Portability Flags

```
403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption, cpp, --no_wchar_t_keyword
```

Base Optimization Flags

C benchmarks:
-fast -Qvec-guard-write -F512000000

C++ benchmarks:
-fast -Qcxx_features -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

```
icl -Qvc8 -Qc99
```

```
401.bzp2: C:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Bin\icl.exe
-IC:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Include
-link -LIBPATH:C:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Lib
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\lib\AMD64
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\PlatformSDK\lib\AMD64
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\lib
```

```
456.hmmr: C:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Bin\icl.exe
-IC:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Include
-link -LIBPATH:C:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Lib
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\lib\AMD64
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\PlatformSDK\lib\AMD64
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\lib
```

C++ benchmarks:
icl -Qvc8



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Peak Portability Flags

401.bzip2: -DSPEC_CPU_P64
403.gcc: -DSPEC_CPU_WIN32
456.hmmr: -DSPEC_CPU_P64
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
-F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000

429.mcf: basepeak = yes

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec-div- -Qansi-alias -F512000000

456.hmmr: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias -Qopt-multi-version-aggressive -F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
-F512000000

462.libquantum: basepeak = yes

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias -F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=block -Qcxx_features -F512000000
shlW32M.lib -link -FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=routine -Qcxx_features -F512000000
shlW32M.lib -link -FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features -F512000000 shlW32M.lib
-link -FORCE:MULTIPLE



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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/CPU2006_flags.20090713.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.xml

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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