



# SPEC<sup>®</sup> CINT2006 Result

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## Fujitsu Siemens Computers

SPECint<sup>®</sup>\_rate2006 = 25.6

PRIMERGY TX200 S3, Intel Xeon processor 5130,  
2.0 GHz

SPECint\_rate\_base2006 = 23.7

CPU2006 license: 22

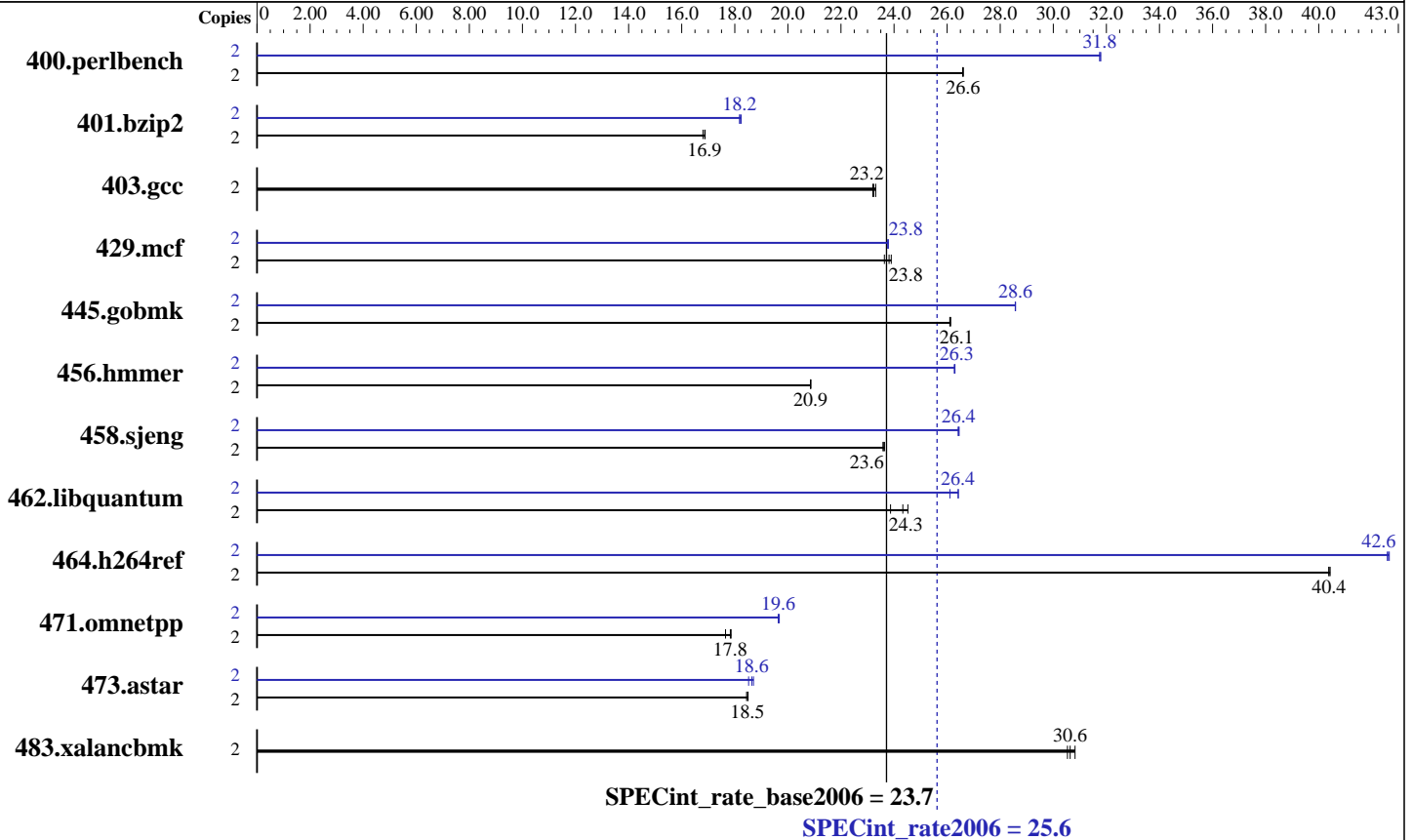
Test date: Jul-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Jul-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon 5130  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (4x2 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)  
 Disk Subsystem: Seagate ST336754SS (SAS, 36GB, 15000rpm)  
 Other Hardware: None

### Software

Operating System: SUSE LINUX Enterprise Server 10 (x86\_64), Kernel 2.6.16.21-0.8-smpp  
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 10.0 - Build 20070308, Package-ID: I\_cc\_p\_10.0.023  
 Auto Parallel: No  
 File System: ext2  
 System State: Multiuser, Runlevel 3  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Smart Heap Library, Version 8.1  
 binutils-2.17.tar.gz, Version 2.17



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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      | 735                | 26.6               | <b><u>734</u></b>  | <b><u>26.6</u></b> | 734                | 26.6               | 2      | 615               | 31.8               | 615               | 31.8               | <b><u>615</u></b>  | <b><u>31.8</u></b> |
| 401.bzip2      | 2      | 1143               | 16.9               | <b><u>1144</u></b> | <b><u>16.9</u></b> | 1149               | 16.8               | 2      | 1058              | 18.2               | 1061              | 18.2               | <b><u>1061</u></b> | <b><u>18.2</u></b> |
| 403.gcc        | 2      | 694                | 23.2               | 691                | 23.3               | <b><u>693</u></b>  | <b><u>23.2</u></b> | 2      | 694               | 23.2               | 691               | 23.3               | <b><u>693</u></b>  | <b><u>23.2</u></b> |
| 429.mcf        | 2      | 772                | 23.6               | <b><u>766</u></b>  | <b><u>23.8</u></b> | 763                | 23.9               | 2      | <b><u>767</u></b> | <b><u>23.8</u></b> | 767               | 23.8               | 768                | 23.8               |
| 445.gobmk      | 2      | 804                | 26.1               | <b><u>803</u></b>  | <b><u>26.1</u></b> | 803                | 26.1               | 2      | 734               | 28.6               | <b><u>734</u></b> | <b><u>28.6</u></b> | 734                | 28.6               |
| 456.hmmmer     | 2      | <b><u>895</u></b>  | <b><u>20.9</u></b> | 895                | 20.9               | 894                | 20.9               | 2      | <b><u>710</u></b> | <b><u>26.3</u></b> | 710               | 26.3               | 710                | 26.3               |
| 458.sjeng      | 2      | 1026               | 23.6               | 1024               | 23.6               | <b><u>1026</u></b> | <b><u>23.6</u></b> | 2      | <b><u>916</u></b> | <b><u>26.4</u></b> | 916               | 26.4               | 915                | 26.5               |
| 462.libquantum | 2      | 1736               | 23.9               | 1690               | 24.5               | <b><u>1703</u></b> | <b><u>24.3</u></b> | 2      | 1568              | 26.4               | 1587              | 26.1               | <b><u>1569</u></b> | <b><u>26.4</u></b> |
| 464.h264ref    | 2      | <b><u>1096</u></b> | <b><u>40.4</u></b> | 1096               | 40.4               | 1095               | 40.4               | 2      | 1039              | 42.6               | 1038              | 42.7               | <b><u>1038</u></b> | <b><u>42.6</u></b> |
| 471.omnetpp    | 2      | 708                | 17.7               | <b><u>701</u></b>  | <b><u>17.8</u></b> | 700                | 17.9               | 2      | 635               | 19.7               | 636               | 19.6               | <b><u>636</u></b>  | <b><u>19.6</u></b> |
| 473.aster      | 2      | 761                | 18.4               | <b><u>760</u></b>  | <b><u>18.5</u></b> | 759                | 18.5               | 2      | 758               | 18.5               | <b><u>753</u></b> | <b><u>18.6</u></b> | 751                | 18.7               |
| 483.xalancbmk  | 2      | <b><u>450</u></b>  | <b><u>30.6</u></b> | 452                | 30.5               | 448                | 30.8               | 2      | <b><u>450</u></b> | <b><u>30.6</u></b> | 452               | 30.5               | 448                | 30.8               |

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

## General Notes

All binaries were built with 32-bit Intel compiler except:  
401.bzip2 and 456.hmmmer in peak were built with 64-bit Intel  
compiler by changing the path for include and library files.

BIOS configuration:  
Adjacent Sector Prefetch = Disable

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<http://www.fujitsu-siemens.com>

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
462.libquantum: -DSPEC\_CPU\_LINUX

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## Base Portability Flags (Continued)

483.xalancbmk: -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-xT -O3 -ipo -no-prec-div -ansi-alias  
-L/opt/SmartHeap\_8\_1/lib -lsmarheap

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/cce/10.0.023/bin/icc  
-I/opt/intel/cce/10.0.023/include  
-L/opt/intel/cce/10.0.023/lib

456.hmmer: /opt/intel/cce/10.0.023/bin/icc  
-I/opt/intel/cce/10.0.023/include  
-L/opt/intel/cce/10.0.023/lib

C++ benchmarks:

icpc

## 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



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## Peak Optimization Flags

C benchmarks:

400.perlbench: -prof\_gen(pass 1) -prof\_use(pass 2) -fast

401.bzip2: -fast

403.gcc: basepeak = yes

429.mcf: -prof\_gen(pass 1) -prof\_use(pass 2) -fast -prefetch  
-L/opt/SmartHeap\_8\_1/lib -lsmarheap

445.gobmk: Same as 400.perlbench

456.hmmer: -prof\_gen(pass 1) -prof\_use(pass 2) -fast -unroll2

458.sjeng: -prof\_gen(pass 1) -prof\_use(pass 2) -fast -unroll4

462.libquantum: -prof\_gen(pass 1) -prof\_use(pass 2) -fast -prefetch  
-opt-streaming-stores always

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) -fast -ansi-alias  
-L/opt/SmartHeap\_8\_1/lib -lsmarheap

473.astar: Same as 471.omnetpp

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/FSC\\_Intel\\_flags.html](http://www.spec.org/cpu2006/flags/FSC_Intel_flags.html)

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

[http://www.spec.org/cpu2006/flags/FSC\\_Intel\\_flags.xml](http://www.spec.org/cpu2006/flags/FSC_Intel_flags.xml)



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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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