



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®2006 = 23.6

CELSIUS M460, Intel Core 2 Quad Q9650 processor

SPECint_base2006 = 21.2

CPU2006 license: 22

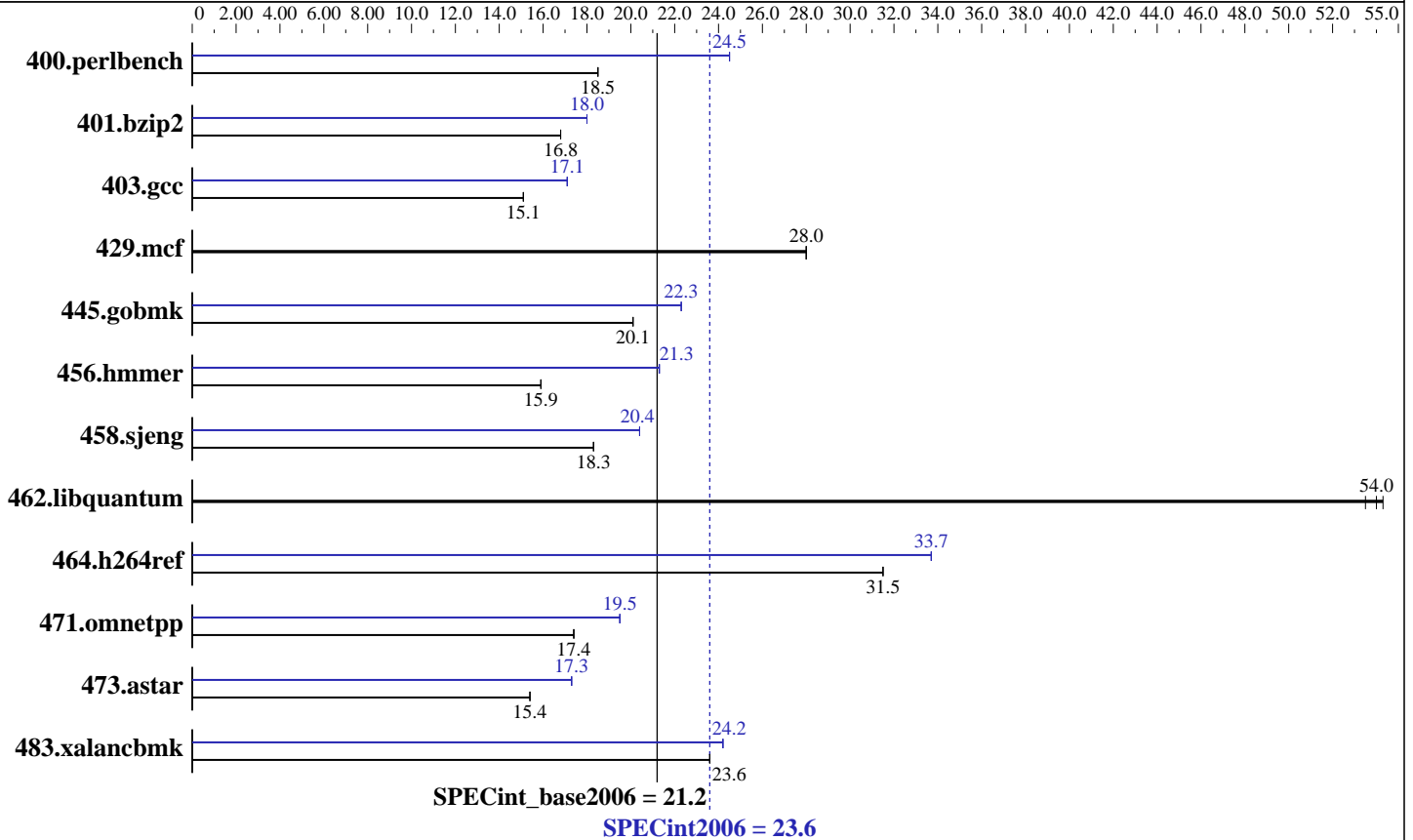
Test date: Oct-2008

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Sep-2008

Tested by: Fujitsu Siemens Computers

Software Availability: Feb-2008



Hardware

CPU Name: Intel Core 2 Quad Q9650
 CPU Characteristics:
 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: 4 GB (4x1 GB PC2-6400 CL6 SDRAM)
 Disk Subsystem: 1 x 400 GB SATA 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Ultimate (x64)
 Compiler: Intel C++ Compiler for applications running on IA-32, Version 10.1, Build 20080312
 Intel C++ Compiler for applications running on Intel 64, Version 10.1, Build 20080312
 Microsoft Visual Studio 2005 with SP1 (for libraries)
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 9



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	529	18.5	<u>528</u>	<u>18.5</u>	528	18.5	399	24.5	<u>399</u>	<u>24.5</u>	399	24.5
401.bzip2	574	16.8	<u>574</u>	<u>16.8</u>	574	16.8	535	18.0	<u>535</u>	<u>18.0</u>	535	18.0
403.gcc	<u>533</u>	<u>15.1</u>	534	15.1	532	15.1	470	17.1	470	17.1	<u>470</u>	<u>17.1</u>
429.mcf	326	28.0	325	28.0	<u>326</u>	<u>28.0</u>	326	28.0	325	28.0	<u>326</u>	<u>28.0</u>
445.gobmk	<u>523</u>	<u>20.1</u>	522	20.1	523	20.1	470	22.3	470	22.3	<u>470</u>	<u>22.3</u>
456.hammer	<u>588</u>	<u>15.9</u>	588	15.9	588	15.9	439	21.3	<u>439</u>	<u>21.3</u>	439	21.3
458.sjeng	660	18.3	<u>660</u>	<u>18.3</u>	660	18.3	594	20.4	594	20.4	<u>594</u>	<u>20.4</u>
462.libquantum	381	54.3	387	53.5	<u>384</u>	<u>54.0</u>	381	54.3	387	53.5	<u>384</u>	<u>54.0</u>
464.h264ref	703	31.5	702	31.5	<u>702</u>	<u>31.5</u>	657	33.7	656	33.7	<u>656</u>	<u>33.7</u>
471.omnetpp	<u>360</u>	<u>17.4</u>	360	17.4	360	17.4	<u>321</u>	<u>19.5</u>	321	19.5	321	19.5
473.astar	<u>456</u>	<u>15.4</u>	456	15.4	455	15.4	<u>407</u>	<u>17.3</u>	407	17.3	407	17.3
483.xalancbmk	292	23.6	293	23.6	<u>292</u>	<u>23.6</u>	285	24.2	<u>285</u>	<u>24.2</u>	285	24.2

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 set to Always On, modified to Turnoff monitor: 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 -Qparallel -Qvec-guard-write -Qpar-runtime-control -F512000000
libguide40.lib
```

C++ benchmarks:

```
-fast -Qcxx-features -F512000000 libguide40.lib 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.bzip2: 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.hmmer: -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 -Qparallel
 -Qpar-runtime-control -Qansi-alias -Qprefetch -F512000000
 libguide40.lib shlW32M.lib -link -FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
 -F512000000 libguide40.lib

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000
 libguide40.lib

429.mcf: basepeak = yes

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

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
 -Qansi-alias -Qopt-multi-version-aggressive -F512000000
 libguide40.lib

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
 -F512000000 libguide40.lib

462.libquantum: basepeak = yes

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
 -Qansi-alias -F512000000 libguide40.lib

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
 -Qansi-alias -Qopt-ra-region-strategy=block -F512000000
 libguide40.lib shlW32M.lib -link -FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
 -Qansi-alias -Qopt-ra-region-strategy=routine -F512000000
 libguide40.lib shlW32M.lib -link -FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

```
483.xalanbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
              -Qansi-alias -F512000000 libguide40.lib shlw32M.lib
              -link -FORCE:MULTIPLE
```

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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