SPEC® CINT2006 Result

Fujitsu Siemens Computers

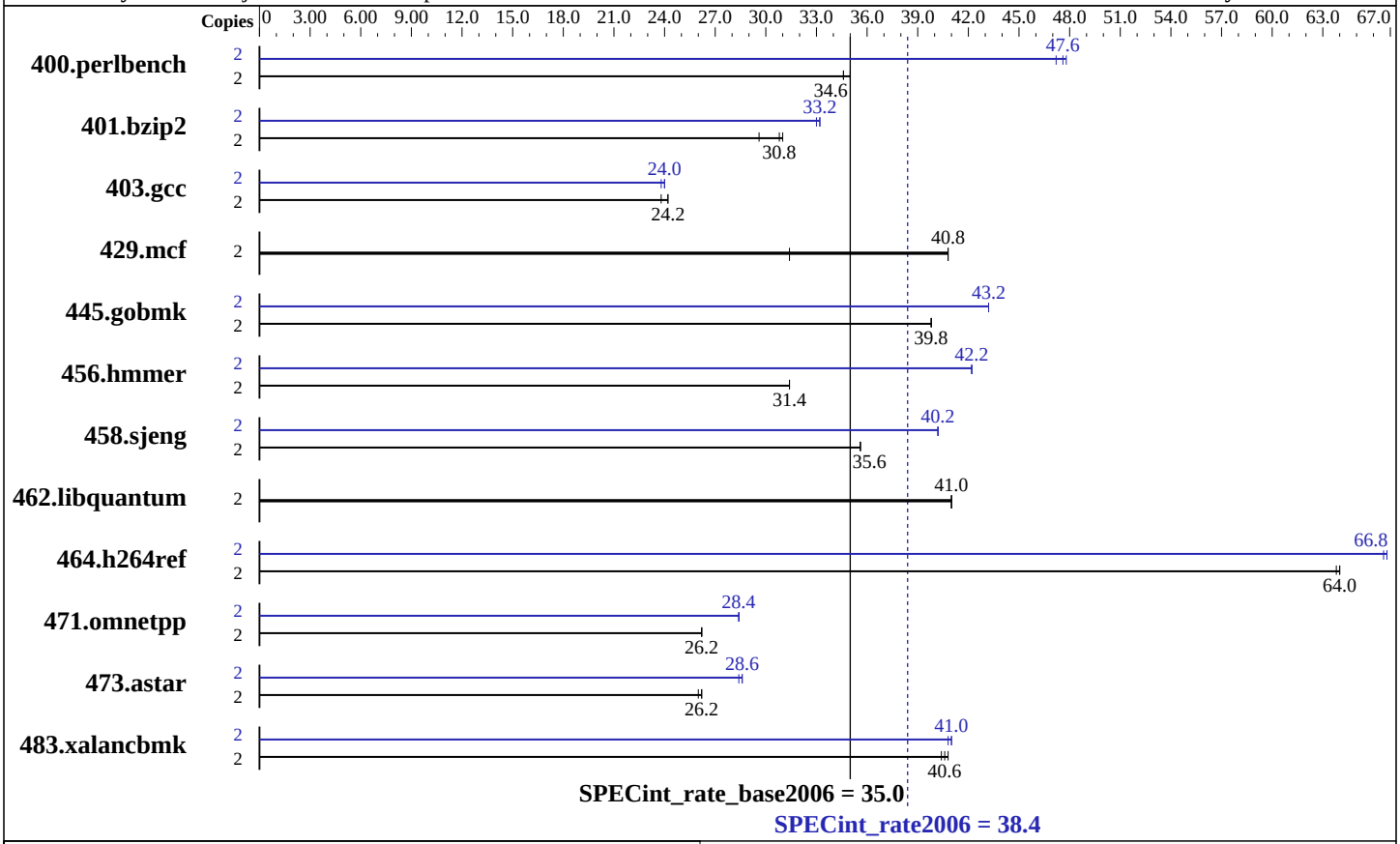
ESPRIMO P5730, Intel Core 2 Duo E8400 processor

SPECint®_rate2006 = 38.4

SPECint_rate_base2006 = 35.0

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Nov-2008
Hardware Availability: Jul-2008
Software Availability: Feb-2008



Hardware

CPU Name:	Intel Core 2 Duo E8400
CPU Characteristics:	
CPU MHz:	3000
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:	6 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, 8 MB, 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	**563**	**34.6**	565	34.6	559	35.0	2	408	47.8	414	47.2	**411**	**47.6**
401.bzip2	2	651	29.6	**625**	**30.8**	624	31.0	2	586	33.0	581	33.2	**582**	**33.2**
403.gcc	2	**667**	**24.2**	664	24.2	676	23.8	2	678	23.8	672	24.0	**673**	**24.0**
429.mcf	2	579	31.4	**448**	**40.8**	447	40.8	2	579	31.4	**448**	**40.8**	447	40.8
445.gobmk	2	528	39.8	527	39.8	**527**	**39.8**	2	486	43.2	**486**	**43.2**	485	43.2
456.hmmer	2	593	31.4	**593**	**31.4**	593	31.4	2	442	42.2	442	42.2	**442**	**42.2**
458.sjeng	2	**681**	**35.6**	681	35.6	681	35.6	2	**603**	**40.2**	603	40.2	603	40.2
462.libquantum	2	1011	41.0	**1010**	**41.0**	1010	41.0	2	1011	41.0	**1010**	**41.0**	1010	41.0
464.h264ref	2	**692**	**64.0**	694	63.8	692	64.0	2	664	66.6	**663**	**66.8**	662	66.8
471.omnetpp	2	478	26.2	**478**	**26.2**	478	26.2	2	440	28.4	440	28.4	**440**	**28.4**
473.astar	2	538	26.0	538	26.2	**538**	**26.2**	2	**492**	**28.6**	492	28.6	493	28.4
483.xalancbmk	2	**340**	**40.6**	338	40.8	341	40.4	2	**337**	**41.0**	337	41.0	338	40.8

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
```

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.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.hmmer: `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`

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 -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.hmmer: -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

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.20090713.01.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.01.xml`

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

Tested with SPEC CPU2006 v1.1.
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