SPEC® CINT2006 Result

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Fujitsu Siemens Computers

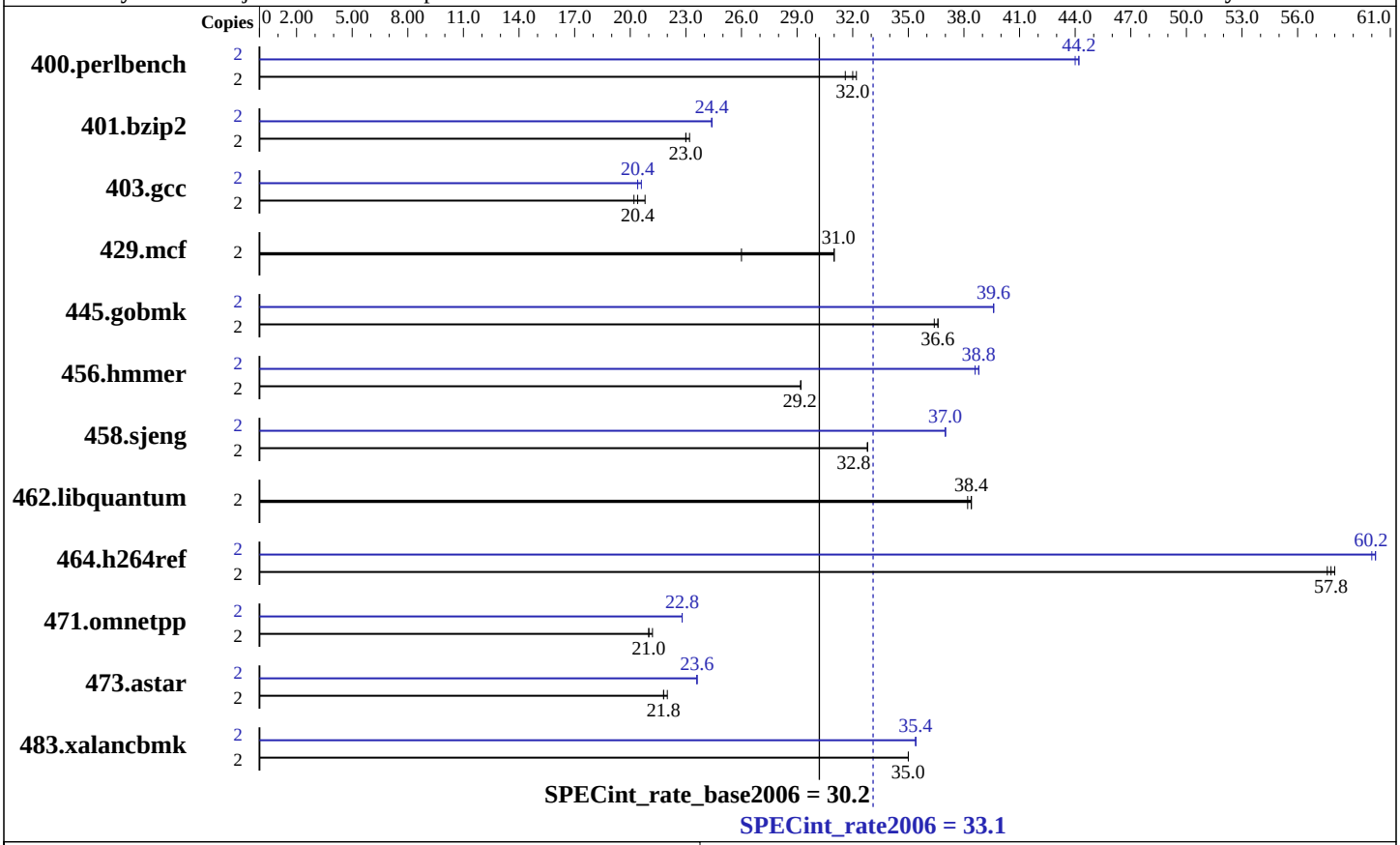
ESPRIMO P7935, Intel Core 2 Duo E7400

SPECint®_rate2006 = 33.1

SPECint_rate_base2006 = 30.2

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

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



Hardware

CPU Name:	Intel Core 2 Duo E7400
CPU Characteristics:	
CPU MHz:	2800
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:	3 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-II, 8MB, 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	608	32.2	618	31.6	**612**	**32.0**	2	**443**	**44.2**	442	44.2	444	44.0
401.bzip2	2	842	23.0	**837**	**23.0**	829	23.2	2	792	24.4	793	24.4	**792**	**24.4**
403.gcc	2	796	20.2	**792**	**20.4**	778	20.8	2	782	20.6	792	20.4	**787**	**20.4**
429.mcf	2	702	26.0	**588**	**31.0**	587	31.0	2	702	26.0	**588**	**31.0**	587	31.0
445.gobmk	2	576	36.4	573	36.6	**573**	**36.6**	2	530	39.6	**530**	**39.6**	529	39.6
456.hmmer	2	**641**	**29.2**	641	29.2	641	29.2	2	482	38.8	483	38.6	**482**	**38.8**
458.sjeng	2	**738**	**32.8**	739	32.8	738	32.8	2	656	37.0	**655**	**37.0**	655	37.0
462.libquantum	2	1080	38.4	**1080**	**38.4**	1084	38.2	2	1080	38.4	**1080**	**38.4**	1084	38.2
464.h264ref	2	769	57.6	764	58.0	**767**	**57.8**	2	734	60.2	737	60.0	**736**	**60.2**
471.omnetpp	2	**593**	**21.0**	593	21.0	592	21.2	2	**549**	**22.8**	549	22.8	549	22.8
473.astar	2	642	21.8	641	22.0	**642**	**21.8**	2	593	23.6	593	23.6	**593**	**23.6**
483.xalancbmk	2	393	35.0	**394**	**35.0**	395	35.0	2	**391**	**35.4**	391	35.4	389	35.4

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`

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For other inquiries, please contact webmaster@spec.org.

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