SPEC® CINT2006 Result
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Fujitsu Siemens Computers

ESPRIMO P5730, Intel Core 2 Duo E7300 processor

$SPECint®\_rate2006 =$ 32.4

$SPECint\_rate\_base2006 =$ 29.6

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

Copies	0 2.00 5.00 8.00 11.0 14.0 17.0 20.0 23.0 26.0 29.0 32.0 35.0 38.0 41.0 44.0 47.0 50.0 53.0 58.0
400.perlbench	2 → 41.6
	2 → 30.6
401.bzip2	2 → 23.6
	2 → 22.6
403.gcc	2 → 20.6
	2 → 20.4
429.mcf	2 → 31.2
445.gobmk	2 → 38.0
	2 → 34.8
456.hmmer	2 → 37.0
	2 → 27.8
458.sjeng	2 → 35.4
	2 → 31.4
462.libquantum	2 → 39.0
464.h264ref	2 → 57.6
	2 → 55.0
471.omnetpp	2 → 23.0
	2 → 21.2
473.astar	2 → 23.2
	2 → 21.4
483.xalancbmk	2 → 35.0
	2 → 34.4

SPECint_rate_base2006 = 29.6

SPECint_rate2006 = 32.4

Hardware
CPU Name:	Intel Core 2 Duo E7300
CPU Characteristics:	
CPU MHz:	2666
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, 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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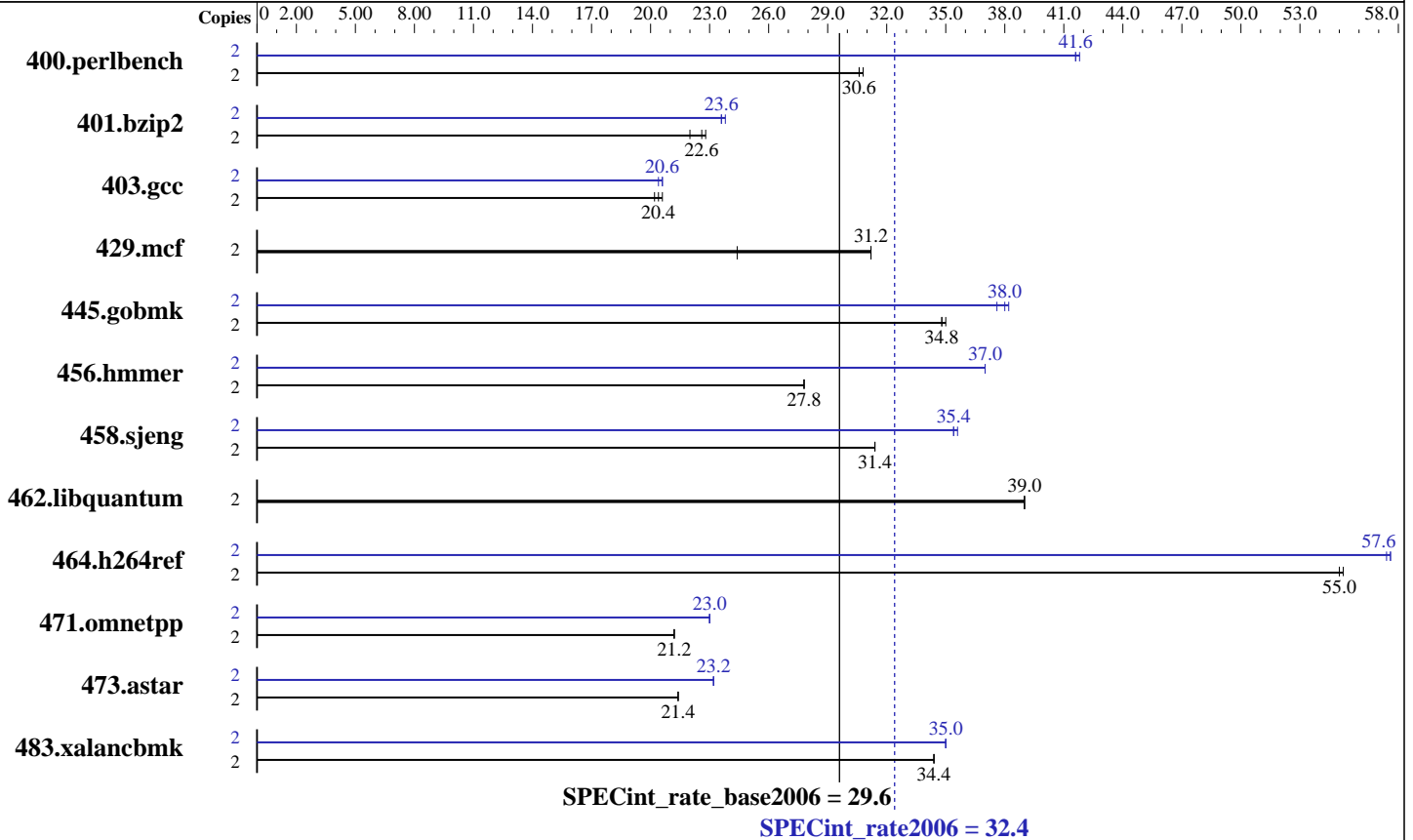
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Results Table

Benchmark	Copies	Base Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	635	30.8	**637**	**30.6**	637	30.6	2	470	41.6	**469**	**41.6**	468	41.8
401.bzip2	2	880	22.0	**855**	**22.6**	850	22.8	2	**815**	**23.6**	810	23.8	818	23.6
403.gcc	2	780	20.6	**792**	**20.4**	797	20.2	2	**783**	**20.6**	791	20.4	782	20.6
429.mcf	2	746	24.4	584	31.2	**584**	**31.2**	2	746	24.4	584	31.2	**584**	**31.2**
445.gobmk	2	601	35.0	**602**	**34.8**	604	34.8	2	550	38.2	**552**	**38.0**	557	37.6
456.hmmer	2	**672**	**27.8**	672	27.8	672	27.8	2	505	37.0	504	37.0	**504**	**37.0**
458.sjeng	2	769	31.4	**769**	**31.4**	769	31.4	2	**682**	**35.4**	682	35.4	681	35.6
462.libquantum	2	1064	39.0	**1062**	**39.0**	1061	39.0	2	1064	39.0	**1062**	**39.0**	1061	39.0
464.h264ref	2	**803**	**55.0**	802	55.2	803	55.0	2	**770**	**57.6**	770	57.4	769	57.6
471.omnetpp	2	588	21.2	**588**	**21.2**	588	21.2	2	**545**	**23.0**	545	23.0	545	23.0
473.astar	2	658	21.4	657	21.4	**658**	**21.4**	2	607	23.2	607	23.2	**607**	**23.2**
483.xalancbmk	2	401	34.4	**401**	**34.4**	401	34.4	2	**395**	**35.0**	395	35.0	395	35.0

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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Test sponsor: Fujitsu Siemens Computers	**Hardware Availability:**	Jul-2008
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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.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
```

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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 -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
```

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

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 other inquiries, please contact webmaster@spec.org.

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