SPEC® CINT2006 Result

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Fujitsu Siemens Computers

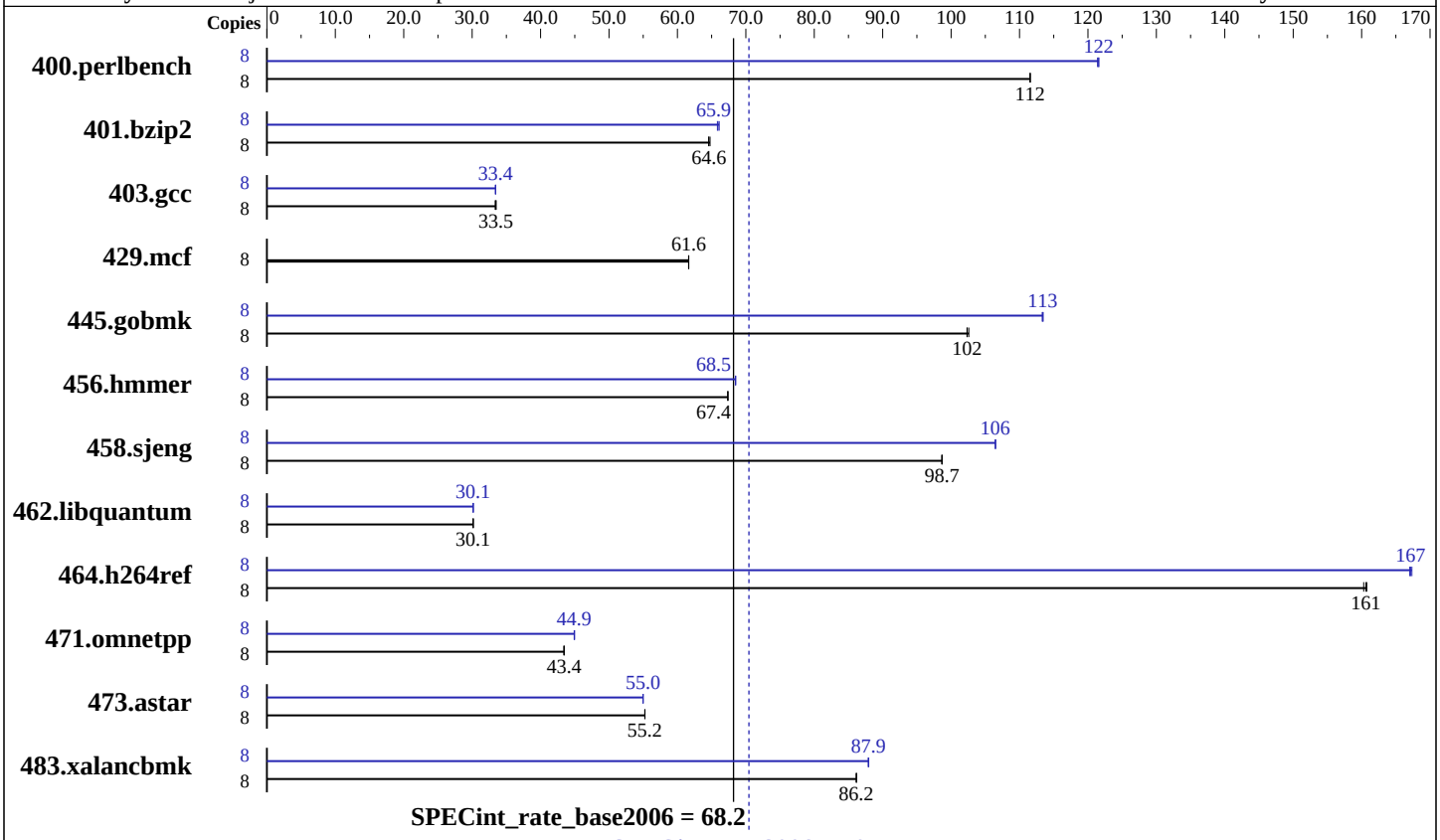
CELSIUS R640, Intel Xeon E5335 processor

SPECint®_rate2006 = 70.5

SPECint_rate_base2006 = 68.2

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

Test date: Feb-2007
Hardware Availability: Nov-2006
Software Availability: Jan-2007



Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	E5335
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem:	SATA II 7200 rpm
Other Hardware:	None

Software

Operating System:	Windows XP, 64 bit Edition
Compiler:	Intel C++ Compiler for 32-bit applications - Version 9.1, Build 20070109Z Microsoft Visual Studio .NET 2003 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 8.0

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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	8	701	112	701	112	**701**	**112**	8	644	121	643	122	**643**	**122**
401.bzip2	8	1192	64.8	**1195**	**64.6**	1196	64.6	8	**1171**	**65.9**	1168	66.1	1172	65.8
403.gcc	8	1930	33.4	1922	33.5	**1925**	**33.5**	8	**1926**	**33.4**	1926	33.4	1929	33.4
429.mcf	8	1183	61.7	1184	61.6	**1184**	**61.6**	8	1183	61.7	1184	61.6	**1184**	**61.6**
445.gobmk	8	820	102	818	103	**820**	**102**	8	741	113	740	113	**740**	**113**
456.hmmer	8	1108	67.4	1108	67.4	**1108**	**67.4**	8	1090	68.5	1090	68.5	**1090**	**68.5**
458.sjeng	8	981	98.6	981	98.7	**981**	**98.7**	8	909	106	909	106	**909**	**106**
462.libquantum	8	5499	30.1	**5498**	**30.1**	5497	30.2	8	5498	30.2	5498	30.1	**5498**	**30.1**
464.h264ref	8	1104	160	1101	161	**1102**	**161**	8	1060	167	1058	167	**1059**	**167**
471.omnetpp	8	1152	43.4	**1151**	**43.4**	1151	43.4	8	1112	45.0	**1113**	**44.9**	1113	44.9
473.astar	8	1017	55.2	**1017**	**55.2**	1016	55.3	8	**1022**	**55.0**	1021	55.0	1022	55.0
483.xalancbmk	8	**641**	**86.2**	640	86.2	641	86.1	8	628	88.0	**628**	**87.9**	628	87.9

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

Platform Notes

```
BIOS default settings have been used, except:
High Bandwith Option Enabled
```

General Notes

```
'start /b /wait /affinity' command is used to bind CPU(s) to processes

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http://www.fujitsu-siemens.com/countries
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`

Continued on next page

Base Portability Flags (Continued)

464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Base Optimization Flags

C benchmarks:
`-fast -F512000000 shlW32M.lib -link -FORCE:MULTIPLE`

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:
`icl -Qvc7.1 -Qc99`

C++ benchmarks:
`icl -Qvc7.1`

Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Peak Optimization Flags

C benchmarks:

400.perlbench: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -F512000000 shlW32M.lib -link -FORCE:MULTIPLE`

401.bzip2: `Same as 400.perlbench`

403.gcc: `Same as 400.perlbench`

Continued on next page

Peak Optimization Flags (Continued)

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -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.20090714.19.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.19.xml

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