SPEC® CINT2006 Result

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Fujitsu Siemens Computers

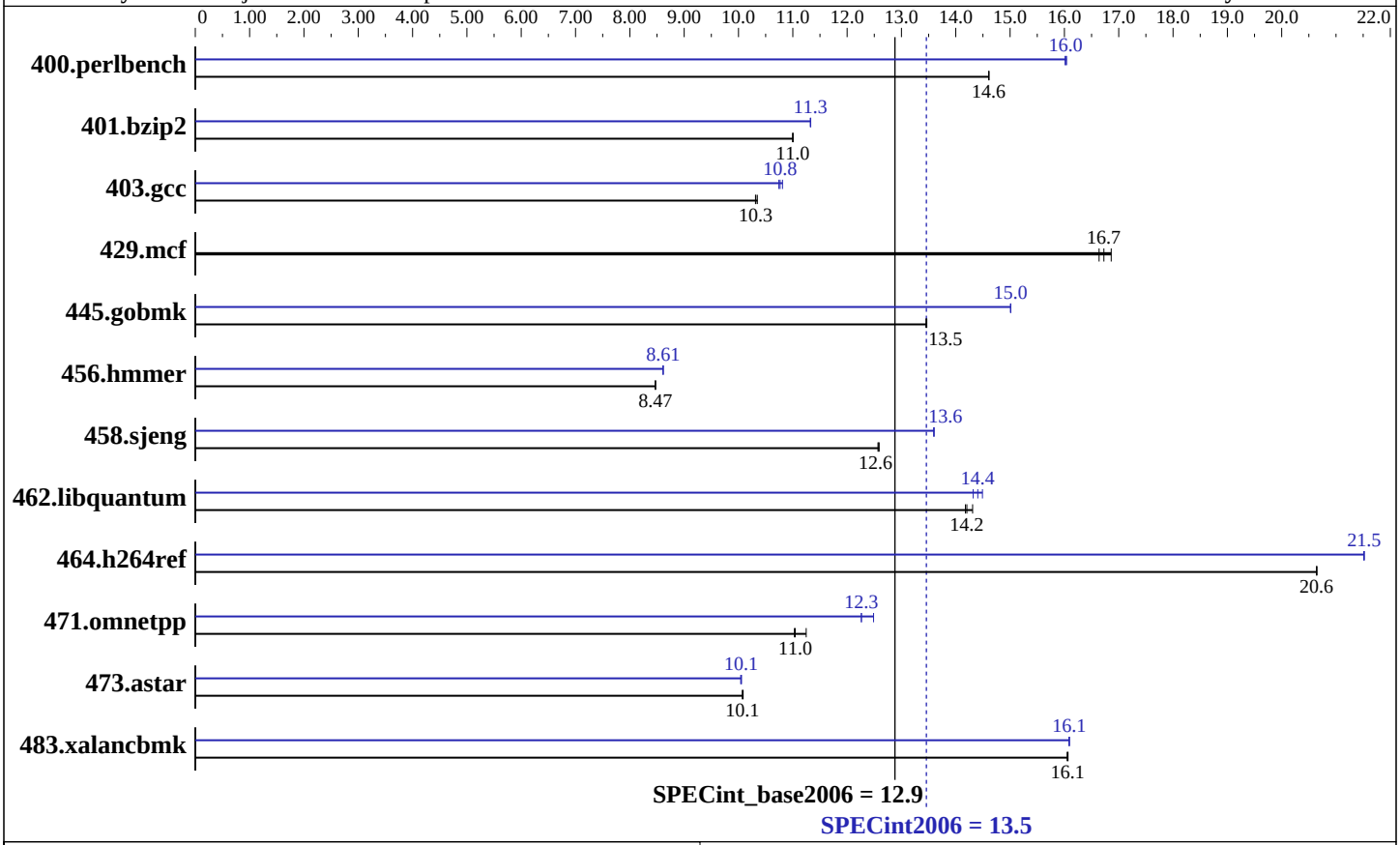
CELSIUS R540, Intel Xeon processor E5335

SPECint®2006 = 13.5

SPECint_base2006 = 12.9

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:	8 GB (4x2 GB DDR2 5300F, 2 rank, CL5-5-5,with 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**669**	**14.6**	669	14.6	669	14.6	610	16.0	**610**	**16.0**	609	16.0
401.bzip2	**877**	**11.0**	878	11.0	877	11.0	**852**	**11.3**	852	11.3	852	11.3
403.gcc	**780**	**10.3**	781	10.3	778	10.3	745	10.8	**748**	**10.8**	749	10.7
429.mcf	**545**	**16.7**	541	16.9	548	16.6	**545**	**16.7**	541	16.9	548	16.6
445.gobmk	780	13.5	779	13.5	**780**	**13.5**	699	15.0	699	15.0	**699**	**15.0**
456.hmmer	1101	8.47	1101	8.47	**1101**	**8.47**	1083	8.61	1083	8.61	**1083**	**8.61**
458.sjeng	**962**	**12.6**	961	12.6	963	12.6	**890**	**13.6**	890	13.6	890	13.6
462.libquantum	1461	14.2	1448	14.3	**1459**	**14.2**	**1438**	**14.4**	1430	14.5	1447	14.3
464.h264ref	**1072**	**20.6**	1072	20.6	1072	20.6	1028	21.5	**1028**	**21.5**	1029	21.5
471.omnetpp	567	11.0	556	11.2	**566**	**11.0**	501	12.5	**510**	**12.3**	510	12.3
473.astar	696	10.1	**697**	**10.1**	697	10.1	**698**	**10.1**	699	10.0	698	10.1
483.xalancbmk	429	16.1	430	16.1	**430**	**16.1**	429	16.1	**429**	**16.1**	429	16.1

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:
Snoop Filter Enabled
Adjacent Cache Line Prefetch Enabled
```

General Notes

```
For information about Fujitsu Siemens Computers in your country please see:
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`
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

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

Continued on next page

Peak Optimization Flags (Continued)

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.20090714.18.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.18.xml`

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