SPEC® CINT2006 Result

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Fujitsu Siemens Computers

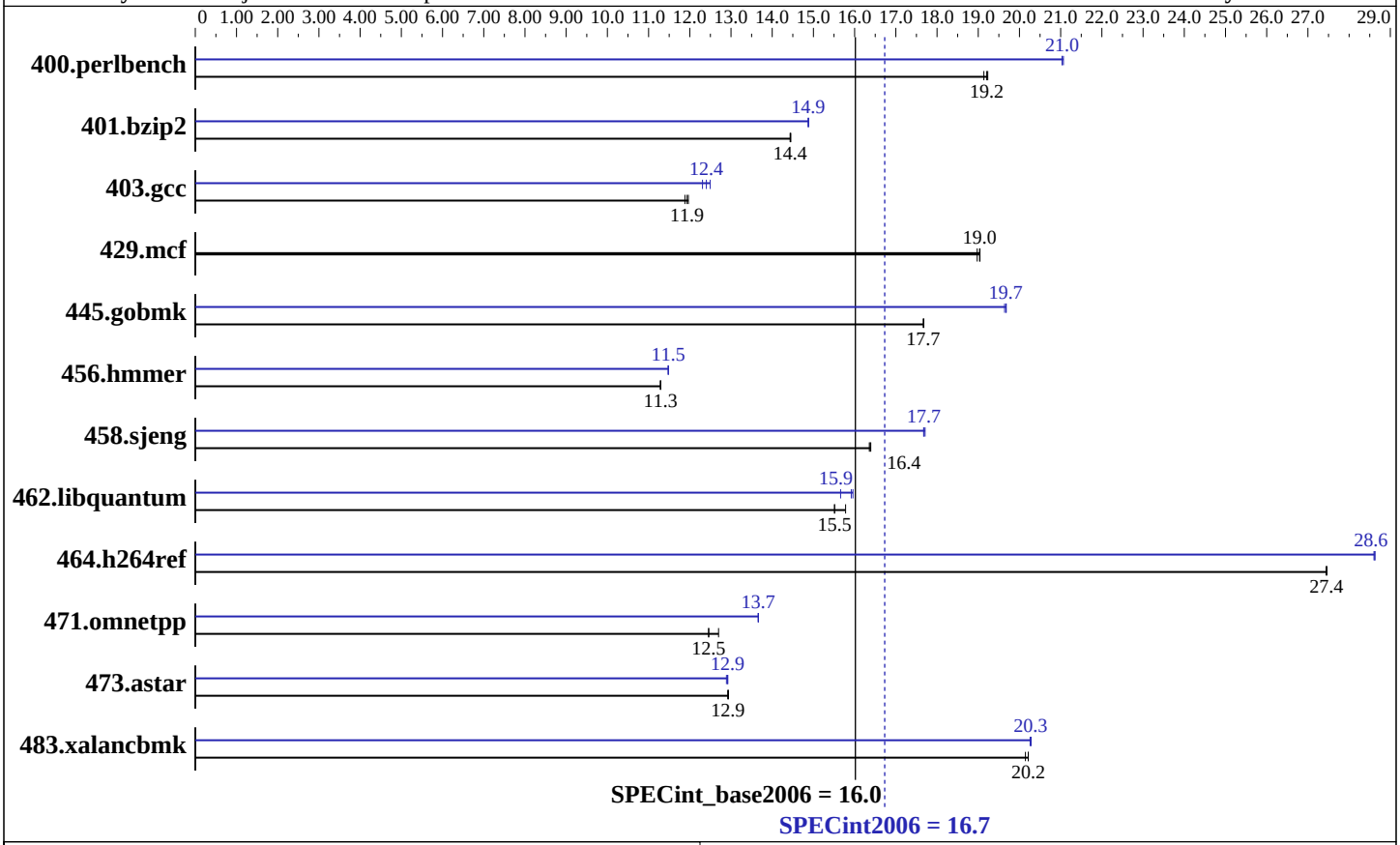
CELSIUS R540, Intel Xeon processor X5355

SPECint®2006 = 16.7

SPECint_base2006 = 16.0

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 X5355
CPU Characteristics:	X5355
CPU MHz:	2667
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	511	19.1	**509**	**19.2**	508	19.2	464	21.1	465	21.0	**464**	**21.0**
401.bzip2	**668**	**14.4**	668	14.5	669	14.4	649	14.9	**649**	**14.9**	648	14.9
403.gcc	**675**	**11.9**	678	11.9	673	12.0	644	12.5	**649**	**12.4**	654	12.3
429.mcf	481	19.0	479	19.0	**479**	**19.0**	481	19.0	479	19.0	**479**	**19.0**
445.gobmk	594	17.7	593	17.7	**594**	**17.7**	533	19.7	**533**	**19.7**	534	19.6
456.hmmer	826	11.3	**826**	**11.3**	826	11.3	813	11.5	**813**	**11.5**	813	11.5
458.sjeng	740	16.4	**739**	**16.4**	738	16.4	**684**	**17.7**	683	17.7	685	17.7
462.libquantum	1336	15.5	**1336**	**15.5**	1313	15.8	**1302**	**15.9**	1323	15.7	1298	16.0
464.h264ref	**806**	**27.4**	806	27.4	806	27.5	773	28.6	774	28.6	**773**	**28.6**
471.omnetpp	502	12.5	492	12.7	**502**	**12.5**	458	13.7	**457**	**13.7**	457	13.7
473.astar	**543**	**12.9**	543	12.9	543	12.9	**543**	**12.9**	545	12.9	543	12.9
483.xalancbmk	343	20.1	341	20.2	**341**	**20.2**	340	20.3	341	20.3	**340**	**20.3**

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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