SPEC® CINT2006 Result

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Fujitsu Siemens Computers

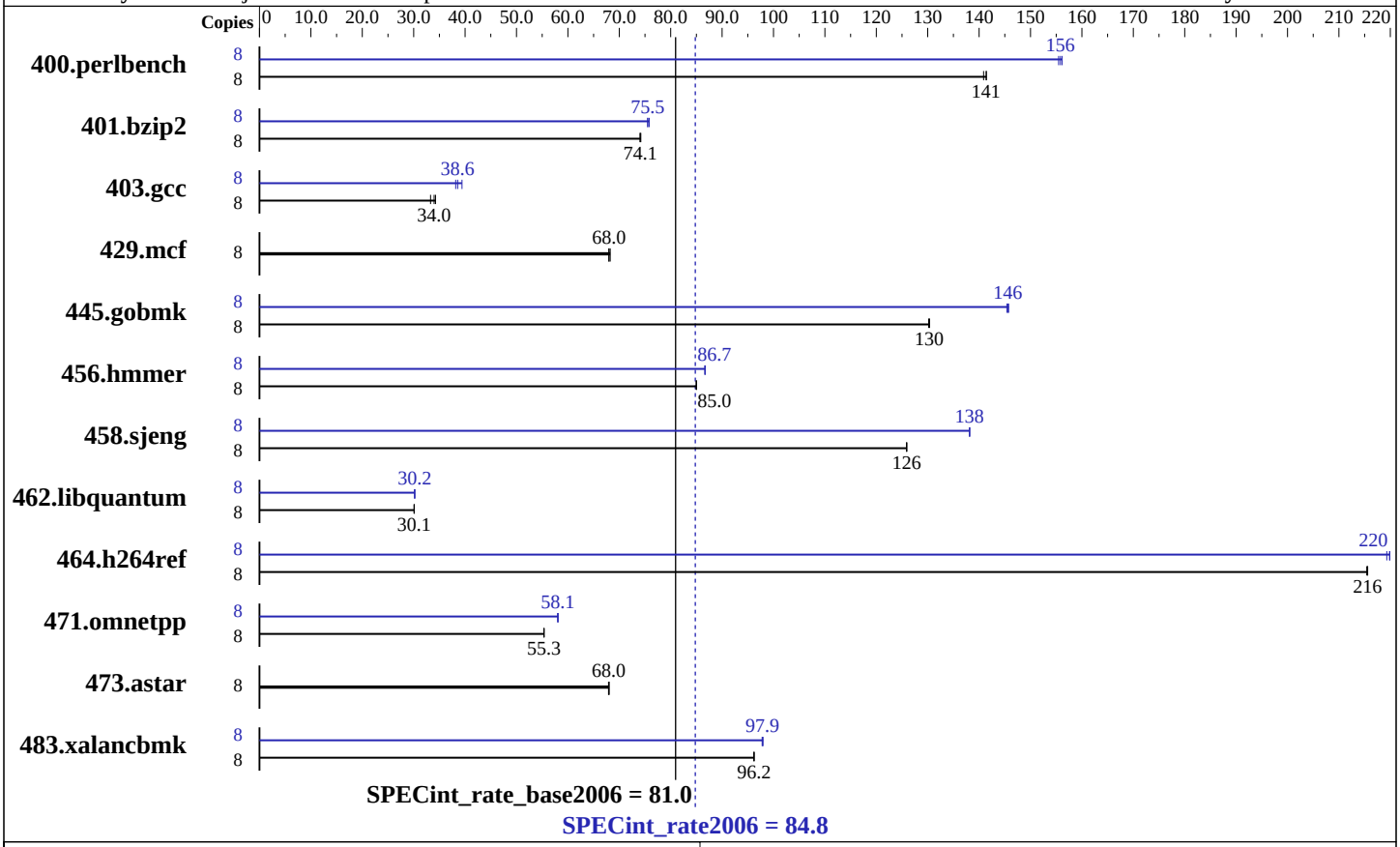
PRIMERGY RX300 S3, Intel Xeon processor X5355, 2.66 GHz

SPECint®_rate2006 = 84.8

SPECint_rate_base2006 = 81.0

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

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



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:	16 GB (8x2 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
Disk Subsystem:	SAS (73GB 15400 rpm)
Other Hardware:	None

Software

Operating System:	Windows Server 2003 x64 Enterprise Edition + SP1 (64-bit)
Compiler:	Intel C++ Compiler for IA32 version 9.1 - Build 20061103Z, Package-ID W_CC_C_9.1.033 Microsoft Visual Studio 2005 (libr. & linker)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	Smart Heap Library, Version 8

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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	555	141	**553**	**141**	553	141	8	503	155	**502**	**156**	501	156
401.bzip2	8	1041	74.2	1043	74.0	**1042**	**74.1**	8	**1022**	**75.5**	1022	75.5	1018	75.8
403.gcc	8	1935	33.3	1880	34.2	**1896**	**34.0**	8	**1670**	**38.6**	1687	38.2	1635	39.4
429.mcf	8	1074	68.0	**1073**	**68.0**	1069	68.2	8	1074	68.0	**1073**	**68.0**	1069	68.2
445.gobmk	8	**644**	**130**	645	130	644	130	8	577	145	**576**	**146**	576	146
456.hmmer	8	879	85.0	**878**	**85.0**	878	85.0	8	**861**	**86.7**	861	86.7	861	86.7
458.sjeng	8	769	126	**769**	**126**	769	126	8	701	138	701	138	**701**	**138**
462.libquantum	8	**5508**	**30.1**	5510	30.1	5507	30.1	8	5491	30.2	**5489**	**30.2**	5488	30.2
464.h264ref	8	**821**	**216**	821	216	822	215	8	**805**	**220**	807	219	805	220
471.omnetpp	8	903	55.4	**904**	**55.3**	904	55.3	8	862	58.0	**861**	**58.1**	861	58.1
473.astar	8	827	67.9	**826**	**68.0**	826	68.0	8	827	67.9	**826**	**68.0**	826	68.0
483.xalancbmk	8	574	96.2	**574**	**96.2**	574	96.2	8	564	98.0	564	97.8	**564**	**97.9**

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

General Notes

```
The PRIMERGY RX300 S3 and the PRIMERGY TX300 S3 are electronically equivalent.

The system bus runs at 1333 MHz

BIOS configuration:
Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

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

Base Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

Base Portability Flags

400.perlbench: `-DSPEC_CPU_NO_NEED_VA_COPY`
403.gcc: `-DSPEC_CPU_WIN32`

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Base Portability Flags (Continued)

464.h264ref: `-DWIN32 -DSPEC_CPU_NO_INTTYPES`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

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 -Qvc8 -Qc99`

C++ benchmarks:
`icl -Qvc8`

Peak Portability Flags

400.perlbench: `-DSPEC_CPU_NO_NEED_VA_COPY`
403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DWIN32 -DSPEC_CPU_NO_INTTYPES`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

Peak Optimization Flags

C benchmarks:

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

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Peak Optimization Flags (Continued)

401.bzip2: Same as 400.perlbench

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000 -link -FORCE:MULTIPLE

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:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

473.astar: basepeak = yes

483.xalancbmk: Same as 471.omnetpp

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.20090715.09.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.09.xml

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