SPEC® CINT2006 Result

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Fujitsu Siemens Computers

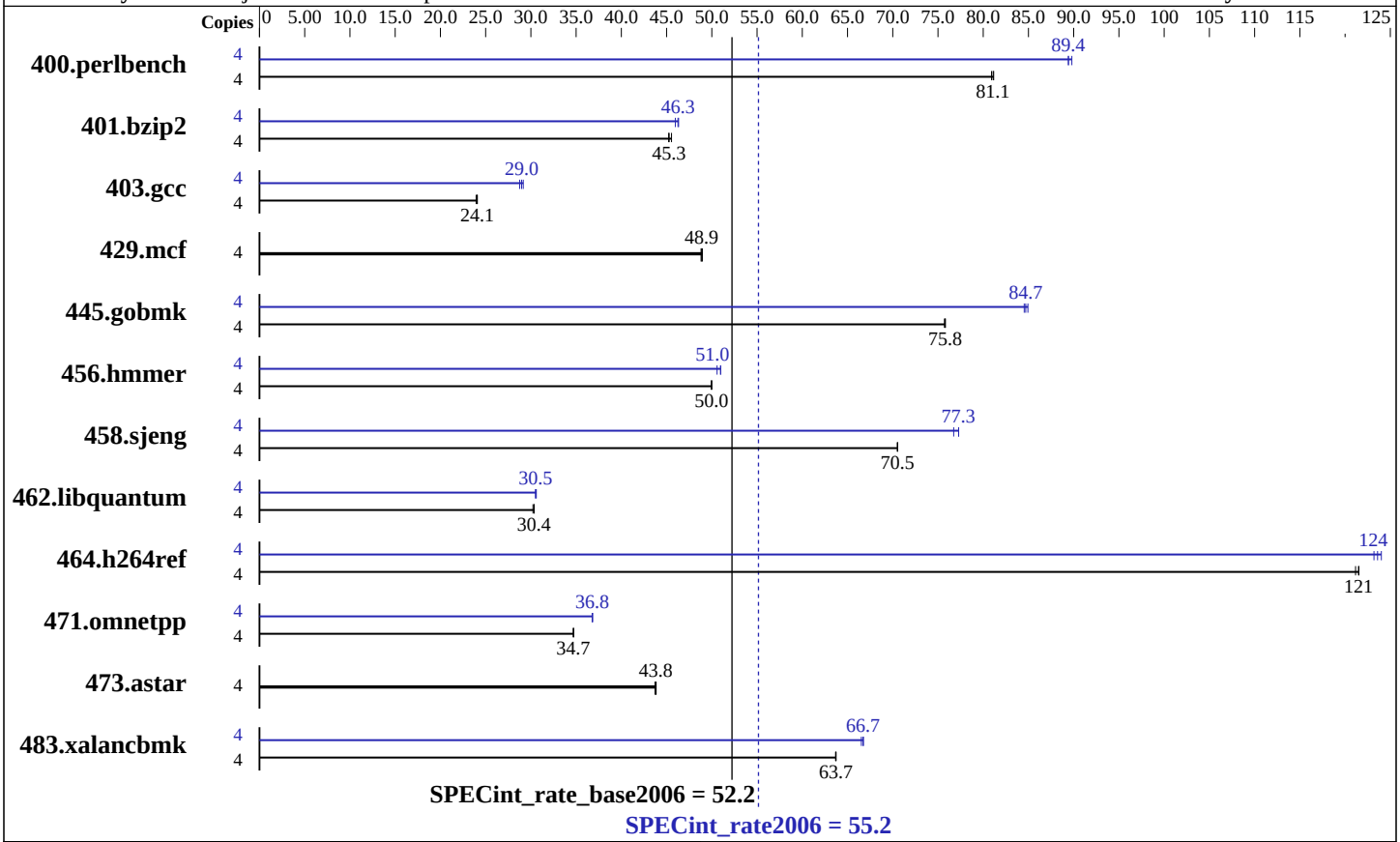
PRIMERGY RX300 S3, Intel Xeon processor 5160, 3.0 GHz

SPECint®_rate2006 = 55.2

SPECint_rate_base2006 = 52.2

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

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



Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	5160
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
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 Enterprise Edition + SP1 (32-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	4	483	80.9	**482**	**81.1**	482	81.2	4	435	89.8	**437**	**89.4**	437	89.4
401.bzip2	4	853	45.2	**852**	**45.3**	848	45.5	4	840	46.0	**834**	**46.3**	833	46.3
403.gcc	4	1337	24.1	1345	23.9	**1338**	**24.1**	4	1119	28.8	1104	29.2	**1111**	**29.0**
429.mcf	4	747	48.8	745	49.0	**746**	**48.9**	4	747	48.8	745	49.0	**746**	**48.9**
445.gobmk	4	554	75.8	554	75.7	**554**	**75.8**	4	**495**	**84.7**	496	84.5	494	84.9
456.hmmer	4	747	50.0	**747**	**50.0**	747	50.0	4	**732**	**51.0**	732	51.0	738	50.6
458.sjeng	4	686	70.5	**686**	**70.5**	686	70.5	4	**626**	**77.3**	626	77.3	631	76.7
462.libquantum	4	2742	30.2	**2730**	**30.4**	2730	30.4	4	2716	30.5	**2715**	**30.5**	2709	30.6
464.h264ref	4	728	122	731	121	**729**	**121**	4	714	124	**716**	**124**	719	123
471.omnetpp	4	721	34.7	720	34.7	**720**	**34.7**	4	679	36.8	**679**	**36.8**	680	36.8
473.astar	4	642	43.7	**641**	**43.8**	640	43.8	4	642	43.7	**641**	**43.8**	640	43.8
483.xalancbmk	4	433	63.7	**433**	**63.7**	433	63.7	4	413	66.8	**414**	**66.7**	415	66.5

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

Operating System Notes

```
added /PAE switch to boot.ini
```

General Notes

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

The system bus runs at 1333 MHz

BIOS configuration:
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
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

Continued on next page

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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