SPEC® CINT2006 Result

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Fujitsu Siemens Computers

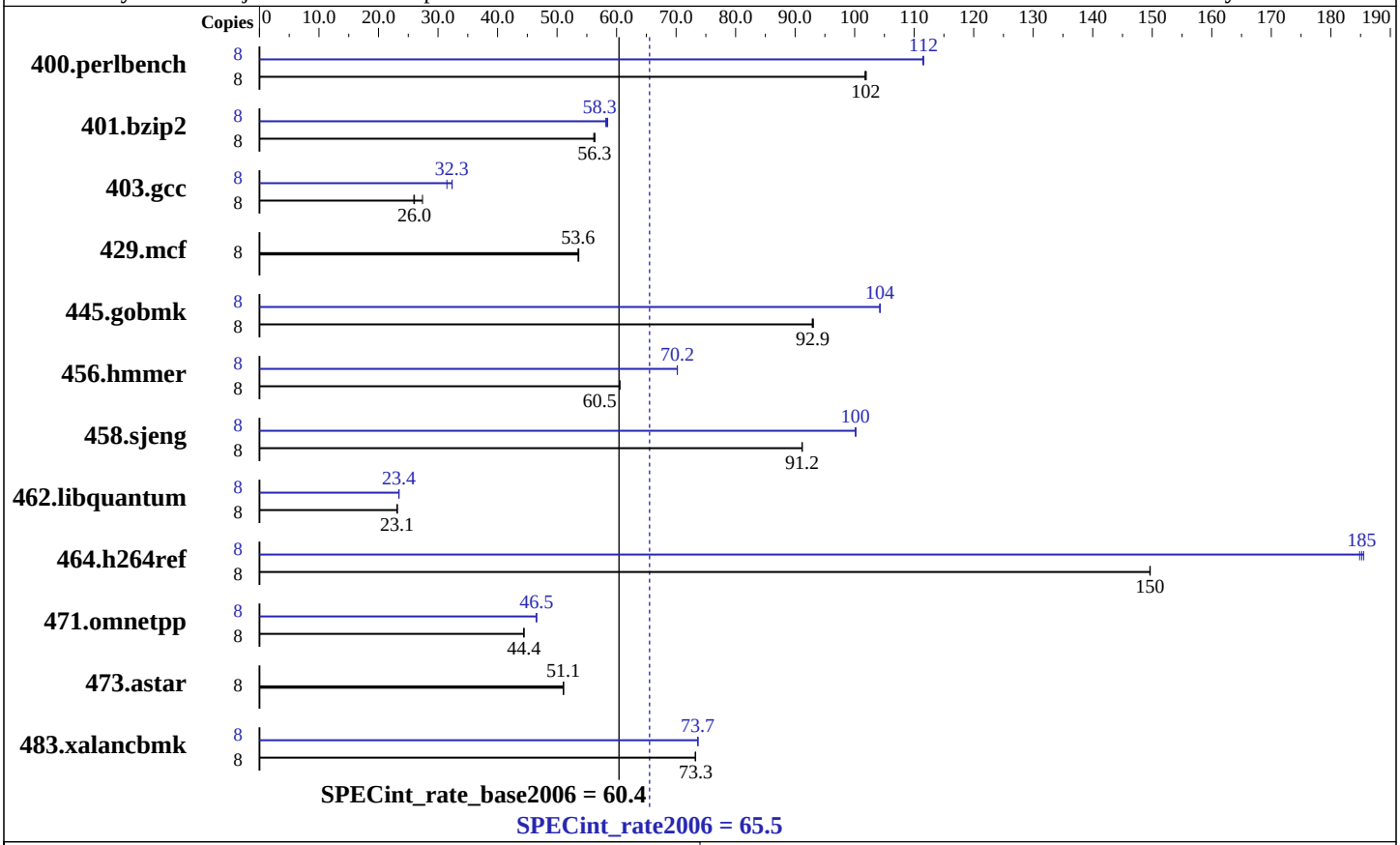
PRIMERGY RX200 S3, Intel Xeon processor E5320, 1.86 GHz

SPECint®_rate2006 = 65.5

SPECint_rate_base2006 = 60.4

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

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



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	E5320
CPU MHz:	1867
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-based applications, Version 9.1 - built 20070109Z, Package-ID: W_CC_C_9.1.034 Intel C++ Compiler for EM64T-based applications, Version 9.1 - built 20070109, Package-ID: W_CC_C_9.1.034 Microsoft Visual Studio 2005 (libraries & linker)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Smart Heap Library, Version 8.1 Microsoft Platform SDK (libraries)

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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	768	102	767	102	**767**	**102**	8	701	111	700	112	**701**	**112**
401.bzip2	8	**1372**	**56.3**	1374	56.2	1370	56.4	8	**1323**	**58.3**	1320	58.5	1327	58.2
403.gcc	8	**2473**	**26.0**	2351	27.4	2483	25.9	8	1989	32.4	**1991**	**32.3**	2045	31.5
429.mcf	8	1360	53.7	**1362**	**53.6**	1362	53.5	8	1360	53.7	**1362**	**53.6**	1362	53.5
445.gobmk	8	902	93.1	904	92.9	**903**	**92.9**	8	805	104	805	104	**805**	**104**
456.hmmer	8	1233	60.5	1233	60.5	**1233**	**60.5**	8	1063	70.2	1063	70.2	**1063**	**70.2**
458.sjeng	8	1061	91.2	1062	91.1	**1062**	**91.2**	8	967	100	966	100	**967**	**100**
462.libquantum	8	7165	23.1	**7165**	**23.1**	7164	23.1	8	7071	23.4	7082	23.4	**7072**	**23.4**
464.h264ref	8	1183	150	**1183**	**150**	1183	150	8	958	185	954	186	**956**	**185**
471.omnetpp	8	**1125**	**44.4**	1125	44.4	1126	44.4	8	**1074**	**46.5**	1074	46.6	1075	46.5
473.astar	8	1100	51.1	1099	51.1	**1100**	**51.1**	8	1100	51.1	1099	51.1	**1100**	**51.1**
483.xalancbmk	8	753	73.3	754	73.2	**753**	**73.3**	8	750	73.6	**749**	**73.7**	749	73.7

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

General Notes

```
The system bus runs at 1067 MHz

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

All binaries were built with 32-bit Intel compiler except:
401.bzip2, 456.hmmer, 462.libquantum and 464.h264ref in peak were built with
64-bit Intel compiler by changing the path for include and library files.

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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

403.gcc: `-DSPEC_CPU_WIN32`

Continued on next page

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 (except as noted below):
`icl -Qvc8 -Qc99`

401.bzip2: `icl -Qvc8 -Qc99`
`-link -LIBPATH:"C:\\Program Files (x86)\\Intel\\Compiler\\C++\\9.1\\EM64T\\Li`
`-link -LIBPATH:"C:\\Program Files\\Microsoft Platform SDK\\Lib\\AMD64"`
`-link -LIBPATH:"C:\\Program Files\\Microsoft Platform SDK\\Lib\\AMD64\\atlmfc`

456.hmmer: `icl -Qvc8 -Qc99`
`-link -LIBPATH:"C:\\Program Files (x86)\\Intel\\Compiler\\C++\\9.1\\EM64T\\Li`
`-link -LIBPATH:"C:\\Program Files\\Microsoft Platform SDK\\Lib\\AMD64"`
`-link -LIBPATH:"C:\\Program Files\\Microsoft Platform SDK\\Lib\\AMD64\\atlmfc`

462.libquantum: `icl -Qvc8 -Qc99`
`-link -LIBPATH:"C:\\Program Files (x86)\\Intel\\Compiler\\C++\\9.1\\EM64T\\Li`
`-link -LIBPATH:"C:\\Program Files\\Microsoft Platform SDK\\Lib\\AMD64"`
`-link -LIBPATH:"C:\\Program Files\\Microsoft Platform SDK\\Lib\\AMD64\\atlmfc`

464.h264ref: `icl -Qvc8 -Qc99`
`-link -LIBPATH:"C:\\Program Files (x86)\\Intel\\Compiler\\C++\\9.1\\EM64T\\Li`
`-link -LIBPATH:"C:\\Program Files\\Microsoft Platform SDK\\Lib\\AMD64"`
`-link -LIBPATH:"C:\\Program Files\\Microsoft Platform SDK\\Lib\\AMD64\\atlmfc`

C++ benchmarks:
`icl -Qvc8`

Peak Portability Flags

401.bzip2: -DSPEC_CPU_P64
403.gcc: -DSPEC_CPU_WIN32
456.hmmer: -DSPEC_CPU_P64
462.libquantum: -DSPEC_CPU_P64
464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES -DSPEC_CPU_P64
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

401.bzip2: -fast -F512000000 shlSMP64Mt.lib bufferoverflowu.lib -link -FORCE:MULTIPLE

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 401.bzip2

458.sjeng: Same as 400.perlbench

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000 bufferoverflowu.lib -link -FORCE:MULTIPLE

464.h264ref: Same as 462.libquantum

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:

Continued on next page

Peak Other Flags (Continued)

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.20090714.22.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.22.xml`

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