SPEC® CINT2006 Result

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Fujitsu Siemens Computers

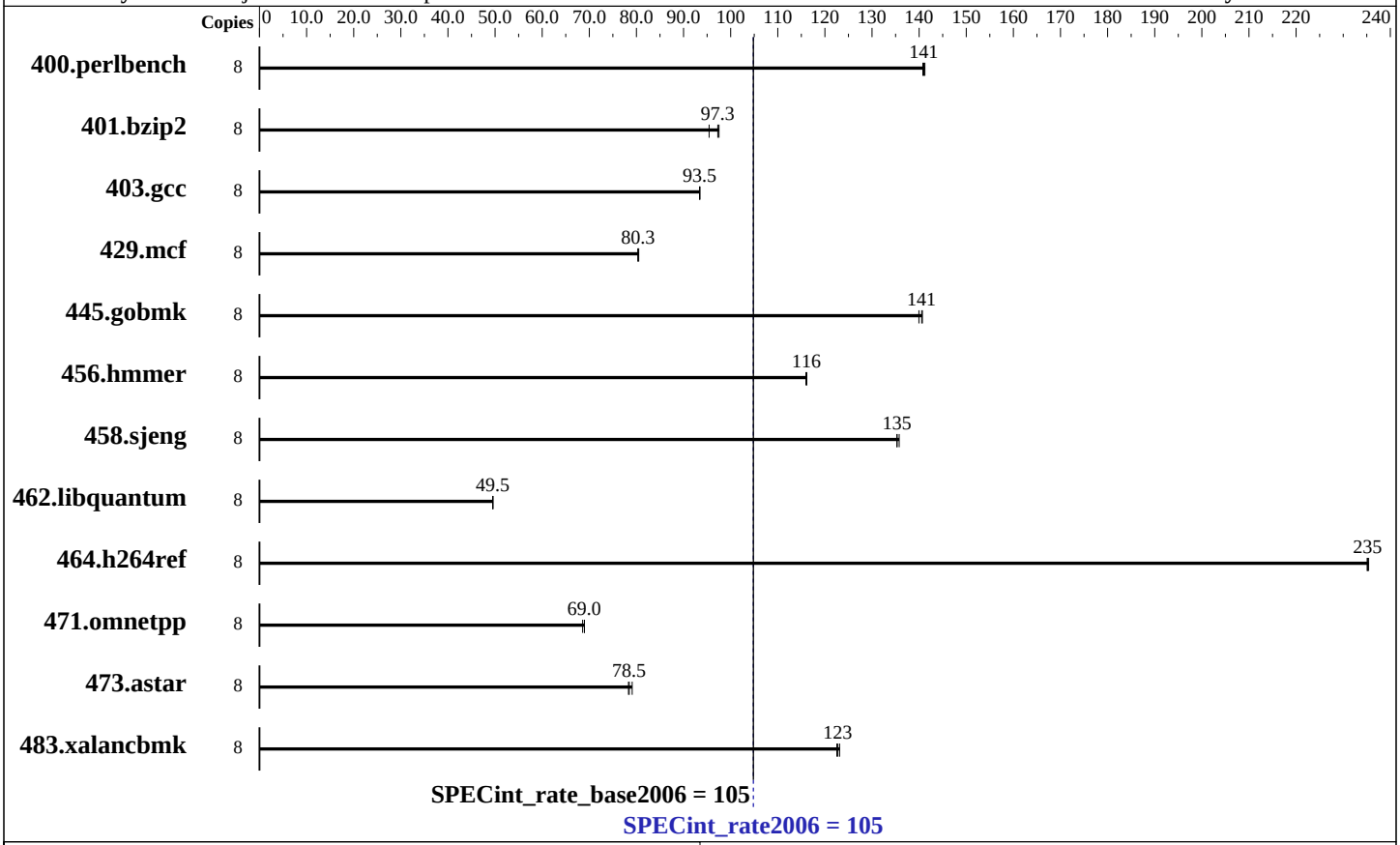
PRIMERGY BX620 S4, Intel Xeon processor E5440, 2.83 GHz

SPECint®_rate2006 = 105

SPECint_rate_base2006 = 105

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

Test date: Nov-2007
Hardware Availability: Dec-2007
Software Availability: Nov-2007



Hardware

CPU Name:	Intel Xeon E5440
CPU Characteristics:	1333 MHz system bus
CPU MHz:	2833
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:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8x2 GB PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
Disk Subsystem:	Seagate ST973451SS (SAS, 73GB, 15000rpm)
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	Intel C++ Compiler for Linux32 and Linux64 Version 10.1 - Build 20070725
Auto Parallel:	No
File System:	ext2
System State:	Multiuser, Runlevel 3
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	Smart Heap Library, Version 8.1 binutils-2.17.tar.gz, Version 2.17

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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	**554**	**141**	8	555	141	553	141	**554**	**141**
401.bzip2	8	809	95.4	**794**	**97.3**	792	97.5	8	809	95.4	**794**	**97.3**	792	97.5
403.gcc	8	**689**	**93.5**	690	93.4	689	93.5	8	**689**	**93.5**	690	93.4	689	93.5
429.mcf	8	906	80.5	**908**	**80.3**	908	80.3	8	906	80.5	**908**	**80.3**	908	80.3
445.gobmk	8	596	141	600	140	**597**	**141**	8	596	141	600	140	**597**	**141**
456.hmmer	8	644	116	643	116	**643**	**116**	8	644	116	643	116	**643**	**116**
458.sjeng	8	**715**	**135**	715	135	713	136	8	**715**	**135**	715	135	713	136
462.libquantum	8	3347	49.5	3347	49.5	**3347**	**49.5**	8	3347	49.5	3347	49.5	**3347**	**49.5**
464.h264ref	8	752	235	**753**	**235**	753	235	8	752	235	**753**	**235**	753	235
471.omnetpp	8	725	69.0	729	68.6	**725**	**69.0**	8	725	69.0	729	68.6	**725**	**69.0**
473.astar	8	**716**	**78.5**	717	78.3	710	79.1	8	**716**	**78.5**	717	78.3	710	79.1
483.xalancbmk	8	448	123	450	123	**450**	**123**	8	448	123	450	123	**450**	**123**

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

General Notes

```
This result has been produced with binaries provided and compiled by Intel.

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

For information about Fujitsu Siemens Computers please see:
http://www.fujitsu-siemens.com
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Base Portability Flags

400.perlbench: `-DSPEC_CPU_LINUX_IA32`
462.libquantum: `-DSPEC_CPU_LINUX`
483.xalancbmk: `-DSPEC_CPU_LINUX`

Base Optimization Flags

C benchmarks:
```
-fast -inline-calloc -opt-malloc-options=3
```

C++ benchmarks:
```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap
```

Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

Peak Optimization Flags

C benchmarks:

400.perlbench: `basepeak = yes`

401.bzip2: `basepeak = yes`

403.gcc: `basepeak = yes`

429.mcf: `basepeak = yes`

445.gobmk: `basepeak = yes`

456.hmmer: `basepeak = yes`

458.sjeng: `basepeak = yes`

462.libquantum: `basepeak = yes`

464.h264ref: `basepeak = yes`

C++ benchmarks:

471.omnetpp: `basepeak = yes`

473.astar: `basepeak = yes`

483.xalancbmk: `basepeak = yes`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.06.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.06.xml

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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