



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX600 S4, Intel Xeon E7310, 1.60 GHz

SPECint®_rate2006 = 126

SPECint_rate_base2006 = 115

CPU2006 license: 22

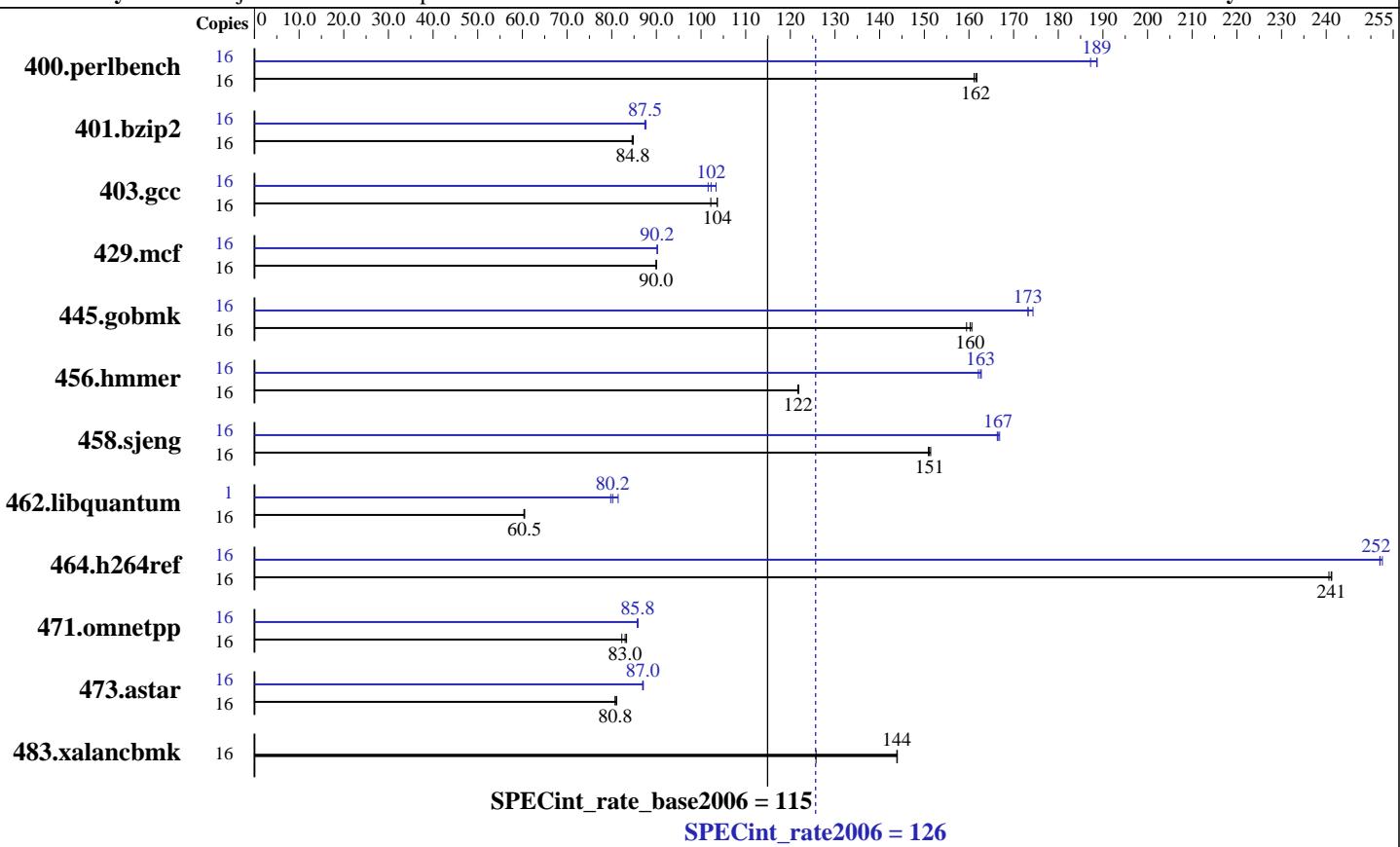
Test date: Jan-2008

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Dec-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2007



Hardware

CPU Name:	Intel Xeon E7310
CPU Characteristics:	1067 MHz system bus
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	16 cores, 4 chips, 4 cores/chip
CPU(s) orderable:	1,2,4 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB L1+D on chip per chip, 2 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	64 GB (16x4 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:	Yes
File System:	ext2
System State:	Multiuser, Runlevel 3
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap 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	16	966	162	968	162	970	161	16	828	189	835	187	829	189
401.bzip2	16	1822	84.8	1826	84.6	1821	84.8	16	1761	87.7	1765	87.5	1766	87.4
403.gcc	16	1243	104	1243	104	1260	102	16	1268	102	1260	102	1246	103
429.mcf	16	1621	90.0	1622	90.0	1622	90.0	16	1618	90.2	1617	90.2	1618	90.2
445.gobmk	16	1053	159	1045	161	1047	160	16	963	174	969	173	969	173
456.hammer	16	1225	122	1226	122	1227	122	16	917	163	921	162	918	163
458.sjeng	16	1281	151	1283	151	1278	151	16	1163	167	1160	167	1164	166
462.libquantum	16	5494	60.3	5484	60.5	5480	60.5	1	260	79.8	254	81.4	258	80.2
464.h264ref	16	1472	241	1468	241	1468	241	16	1405	252	1402	253	1405	252
471.omnetpp	16	1205	83.0	1216	82.3	1200	83.3	16	1166	85.8	1166	85.7	1164	85.9
473.astar	16	1390	80.8	1391	80.8	1385	81.1	16	1291	87.0	1292	86.9	1290	87.1
483.xalancbmk	16	878	126	767	144	767	144	16	878	126	767	144	767	144

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

Operating System Notes

'OMP_NUM_THREADS' set to number of cores (default)

General Notes

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

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

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

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



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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/cmpllr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

456.hmmr: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

401.bzip2: -DSPEC_CPU_LP64

456.hmmr: -DSPEC_CPU_LP64

462.libquantum: -DSPEC_CPU_LINUX

Continued on next page



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Peak Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

```
400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias  
                  -prefetch  
  
401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch  
  
403.gcc: -fast -inline-calloc -opt-malloc-options=3  
  
429.mcf: -fast -prefetch  
  
445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo  
                  -no-prec-div -ansi-alias  
  
456.hmmer: -fast -unroll12 -ansi-alias -opt-multi-version-aggressive  
  
458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4  
  
462.libquantum: -fast -unroll14 -Ob0 -prefetch  
                  -opt-streaming-stores always -vec-guard-write  
                  -opt-malloc-options=3 -parallel -par-runtime-control  
  
464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12  
                  -ansi-alias
```

C++ benchmarks:

```
471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
                  -no-prec-div -ansi-alias -opt-ra-region-strategy=block  
                  -Wl,-z,muldefs  
                  -L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap  
  
473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
                  -no-prec-div -ansi-alias -opt-ra-region-strategy=routine  
                  -Wl,-z,muldefs  
                  -L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap
```

483.xalancbmk: basepeak = yes



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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/Intel-ic10-ia32-intel64-linux-flags.20090714.01.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.20090714.01.xml>

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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.

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