SPEC® CINT2006 Result

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Fujitsu Siemens Computers

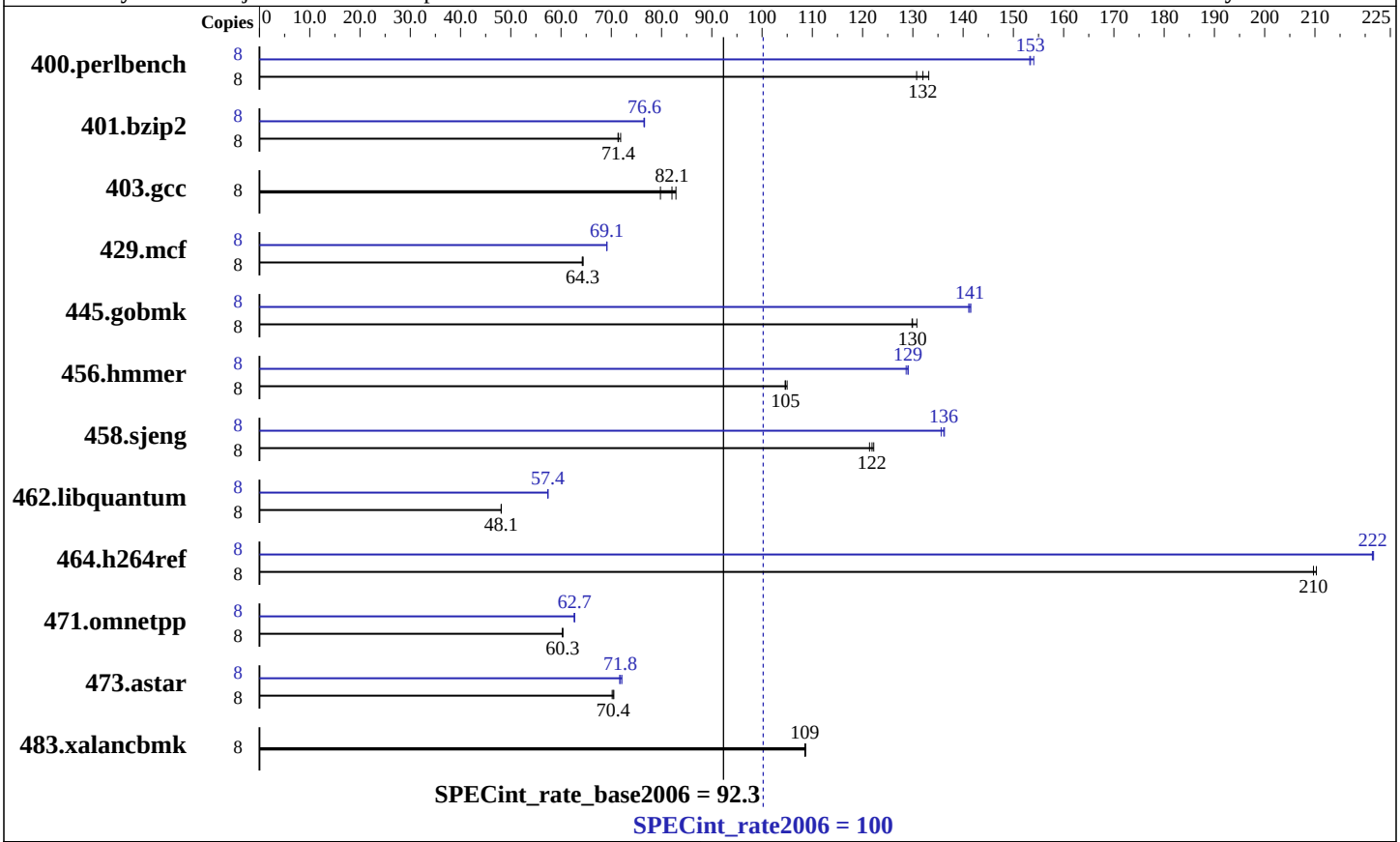
PRIMERGY RX300 S3, Intel Xeon processor X5355, 2.66 GHz

SPECint®_rate2006 = 100

SPECint_rate_base2006 = 92.3

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

Test date: Jun-2007
Hardware Availability: Jan-2007
Software Availability: Jun-2007



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	1333 MHz system bus
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:	8 GB (8x1 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
Disk Subsystem:	Seagate ST373454SS (SAS, 73GB, 15000rpm)
Other Hardware:	None

Software

Operating System:	SUSE LINUX Enterprise Server 10 (x86_64), Kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ Compiler for IA32/EM64T application, Version 10.0 - Build 20070308, Package-ID: l_cc_p_10.0.023
Auto Parallel:	No
File System:	ext2
System State:	Multiuser, Runlevel 3
Base Pointers:	32-bit
Peak Pointers:	32/64-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	587	133	598	131	**592**	**132**	8	507	154	**509**	**153**	510	153
401.bzip2	8	1074	71.9	**1081**	**71.4**	1082	71.3	8	1009	76.5	**1008**	**76.6**	1008	76.6
403.gcc	8	807	79.8	777	82.9	**785**	**82.1**	8	807	79.8	777	82.9	**785**	**82.1**
429.mcf	8	1133	64.4	**1134**	**64.3**	1136	64.2	8	1055	69.1	**1056**	**69.1**	1056	69.1
445.gobmk	8	642	131	646	130	**646**	**130**	8	**594**	**141**	593	142	595	141
456.hmmer	8	711	105	714	105	**713**	**105**	8	580	129	578	129	**578**	**129**
458.sjeng	8	798	121	**794**	**122**	792	122	8	710	136	**711**	**136**	714	136
462.libquantum	8	3445	48.1	3447	48.1	**3446**	**48.1**	8	2888	57.4	2888	57.4	**2888**	**57.4**
464.h264ref	8	842	210	844	210	**844**	**210**	8	**799**	**222**	799	222	800	221
471.omnetpp	8	830	60.3	**829**	**60.3**	829	60.3	8	**798**	**62.7**	798	62.6	797	62.7
473.astar	8	800	70.2	797	70.5	**798**	**70.4**	8	784	71.7	**782**	**71.8**	779	72.1
483.xalancbmk	8	**509**	**109**	508	109	509	109	8	**509**	**109**	508	109	509	109

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

General Notes

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

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

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

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

C++ benchmarks:
-xT -O3 -ipo -no-prec-div -ansi-alias
-L/opt/SmartHeap_8_1/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

401.bzip2: /opt/intel/cce/10.0.023/bin/icc
-I/opt/intel/cce/10.0.023/include
-L/opt/intel/cce/10.0.023/lib

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-I/opt/intel/cce/10.0.023/include
-L/opt/intel/cce/10.0.023/lib

C++ benchmarks:
icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX

Continued on next page

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

401.bzip2: -fast

403.gcc: basepeak = yes

429.mcf: -prof_gen(pass 1) -prof_use(pass 2) -fast -prefetch -L/opt/SmartHeap_8_1/lib -lsmartheap

445.gobmk: Same as 400.perlbench

456.hmmer: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2

458.sjeng: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll4

462.libquantum: -prof_gen(pass 1) -prof_use(pass 2) -fast -prefetch -opt-streaming-stores always

464.h264ref: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -fast -ansi-alias -L/opt/SmartHeap_8_1/lib -lsmartheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

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/FSC_Intel_flags.html

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

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 13:00:41 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 10 July 2007.