



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX100 S5, Intel Pentium Dual Core
E2160, 1.80 GHz

SPECfp®_rate2006 = 20.6

SPECfp_rate_base2006 = 19.7

CPU2006 license: 22

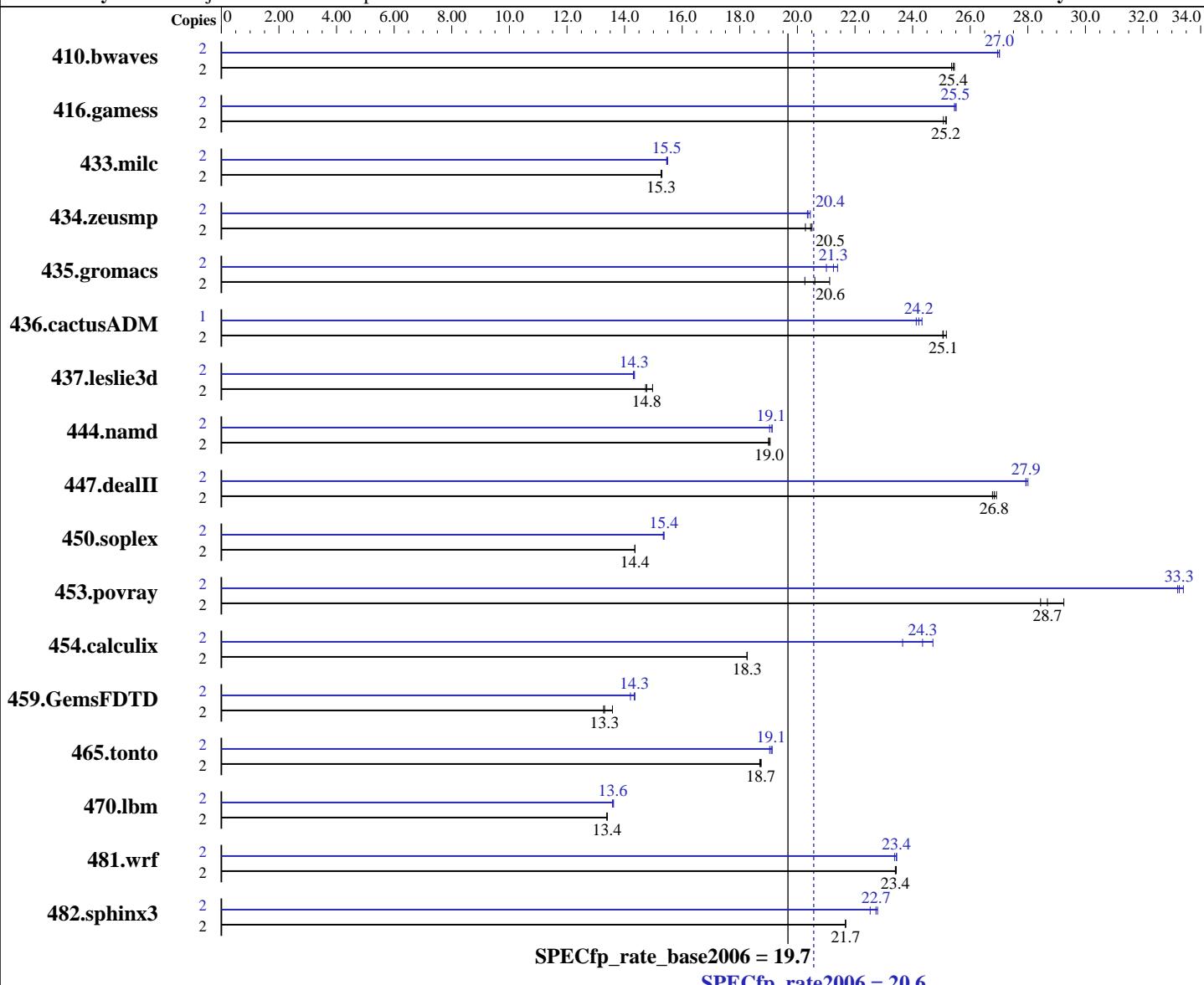
Test date: Apr-2008

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Apr-2008

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2007



Hardware

CPU Name: Intel Pentium Dual Core E2160
CPU Characteristics: 800 MHz system bus
CPU MHz: 1800
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 1 MB I+D on chip per chip

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 Version 10.1 - Build 20070725
Auto Parallel:
File System: ext2
System State: Multi-User Run Level 3
Base Pointers: 64-bit

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L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB PC2-6400E, 2 rank, CL 6-6-6, ECC)
 Disk Subsystem: 1x SATA, 500 GB, 7200 rpm
 Other Hardware: None

Peak Pointers: 32/64-bit
 Other Software: binutils-2.17.50.0.5-0.1.x86_64

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1068	25.5	1072	25.4	1069	25.4	2	1009	27.0	1006	27.0	1006	27.0
416.gamess	2	1557	25.2	1556	25.2	1562	25.1	2	1535	25.5	1537	25.5	1539	25.5
433.milc	2	1200	15.3	1202	15.3	1202	15.3	2	1187	15.5	1185	15.5	1187	15.5
434.zeusmp	2	887	20.5	898	20.3	890	20.5	2	890	20.4	894	20.3	894	20.4
435.gromacs	2	693	20.6	676	21.1	705	20.3	2	667	21.4	672	21.3	680	21.0
436.cactusADM	2	954	25.0	949	25.2	954	25.1	1	495	24.1	491	24.3	494	24.2
437.leslie3d	2	1256	15.0	1276	14.7	1273	14.8	2	1311	14.3	1314	14.3	1312	14.3
444.namd	2	844	19.0	843	19.0	842	19.1	2	839	19.1	843	19.0	839	19.1
447.dealII	2	855	26.8	850	26.9	853	26.8	2	817	28.0	819	27.9	819	27.9
450.soplex	2	1162	14.4	1161	14.4	1162	14.4	2	1085	15.4	1086	15.4	1087	15.3
453.povray	2	371	28.7	374	28.4	364	29.3	2	319	33.4	320	33.2	320	33.3
454.calculix	2	904	18.3	904	18.3	904	18.3	2	668	24.7	698	23.7	678	24.3
459.GemsFDTD	2	1563	13.6	1599	13.3	1595	13.3	2	1478	14.4	1480	14.3	1494	14.2
465.tonto	2	1050	18.7	1051	18.7	1053	18.7	2	1031	19.1	1029	19.1	1034	19.0
470.lbm	2	2051	13.4	2052	13.4	2053	13.4	2	2018	13.6	2021	13.6	2024	13.6
481.wrf	2	953	23.4	955	23.4	955	23.4	2	953	23.4	956	23.4	953	23.4
482.sphinx3	2	1799	21.7	1799	21.7	1798	21.7	2	1715	22.7	1730	22.5	1711	22.8

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run OMP_NUM_THREADS set to number of cores (default)

Platform Notes

BIOS configuration:

Hardware Prefetch = Enable, Adjacent Sector Prefetch = Enable

General Notes

All binaries were built with 64-bit Intel compiler except:
 437.leslie3d, 450.soplex, 470.lbm, and 482.sphinx3 in peak
 were built with 32-bit Intel compiler by changing

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General Notes (Continued)

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

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:

-fast

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Base Optimization Flags (Continued)

C++ benchmarks:

-fast

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast

Peak Compiler Invocation

C benchmarks (except as noted below):

/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib
-I/opt/intel/fc/10.1.008/include

Benchmarks using both Fortran and C:

icc ifort

Peak Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64

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Peak Portability Flags (Continued)

465.tonto: -DSPEC_CPU_LP64

481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-scalar-rep -prefetch -opt-malloc-options=3

482.sphinx3: -fast -unroll2

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -O0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -O0
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -auto

Benchmarks using both Fortran and C:

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Peak Optimization Flags (Continued)

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-prefetch -parallel -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.20090713.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.20090713.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 16:47:14 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 29 April 2008.