



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

PRIMERGY TX150 S6, Intel Pentium Dual Core E2200, 2.20 GHz

SPECfp®_rate2006 = 22.7

SPECfp_rate_base2006 = 21.7

CPU2006 license: 22

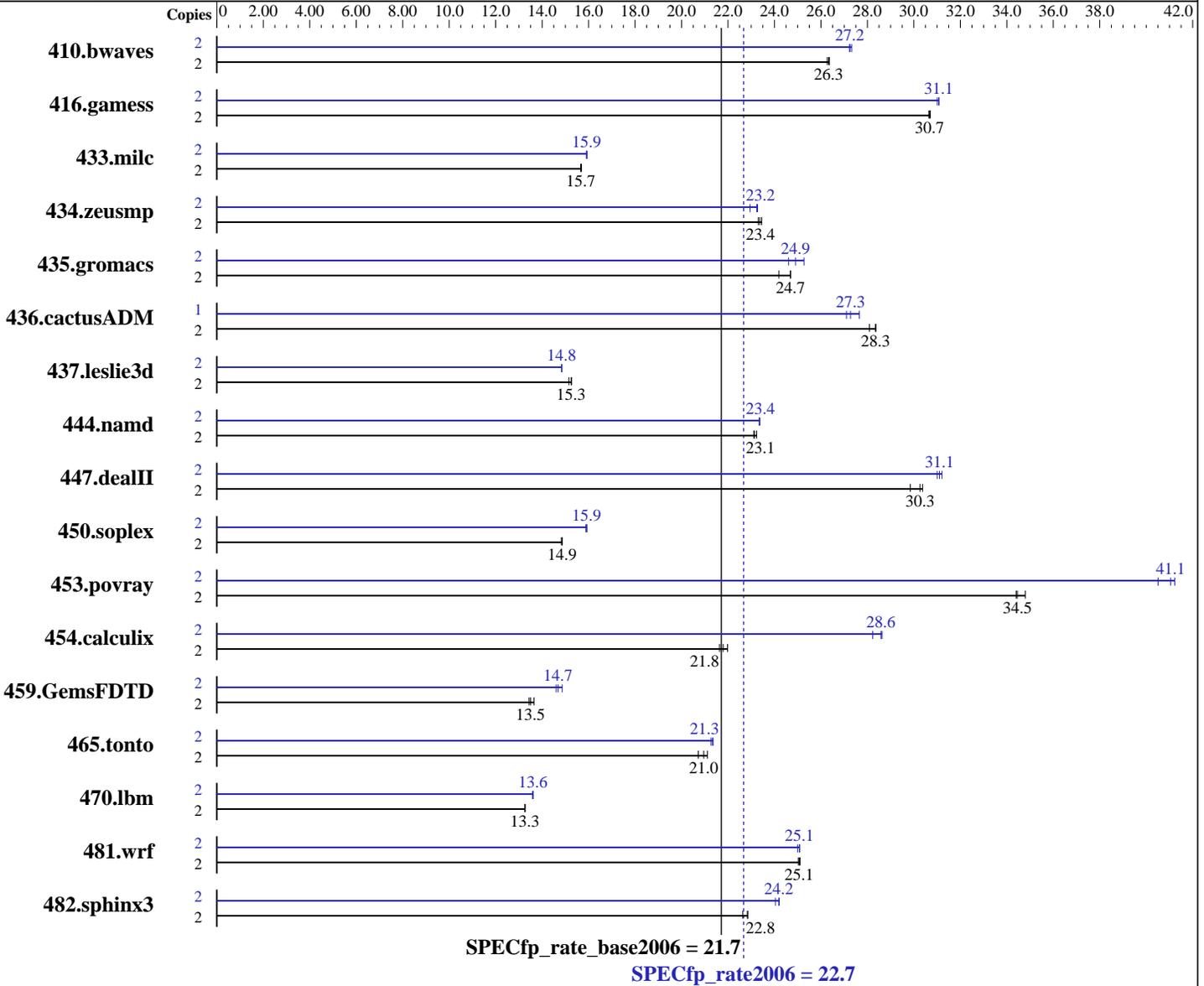
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Sep-2008

Hardware Availability: Sep-2008

Software Availability: May-2008



Hardware

CPU Name: Intel Pentium Dual Core E2200
 CPU Characteristics: 800 MHz system bus
 CPU MHz: 2200
 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

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Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64) SP2, kernel 2.6.16.60-0.21-smp
 Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 Version 10.1 - Build 20070913
 Auto Parallel: Yes
 File System: ext3
 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, 80 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	1035	26.3	1031	26.4	<u>1032</u>	<u>26.3</u>	2	<u>998</u>	<u>27.2</u>	998	27.2	995	27.3		
416.gamess	2	1275	30.7	1278	30.6	<u>1276</u>	<u>30.7</u>	2	1260	31.1	<u>1260</u>	<u>31.1</u>	1263	31.0		
433.milc	2	1170	15.7	<u>1172</u>	<u>15.7</u>	1172	15.7	2	<u>1153</u>	<u>15.9</u>	1155	15.9	1152	15.9		
434.zeusmp	2	<u>779</u>	<u>23.4</u>	776	23.5	781	23.3	2	<u>783</u>	<u>23.2</u>	782	23.3	793	22.9		
435.gromacs	2	578	24.7	<u>578</u>	<u>24.7</u>	590	24.2	2	580	24.6	565	25.3	<u>573</u>	<u>24.9</u>		
436.cactusADM	2	<u>843</u>	<u>28.3</u>	843	28.4	851	28.1	1	<u>438</u>	<u>27.3</u>	441	27.1	432	27.7		
437.leslie3d	2	<u>1233</u>	<u>15.3</u>	1231	15.3	1241	15.2	2	<u>1267</u>	<u>14.8</u>	1266	14.9	1267	14.8		
444.namd	2	694	23.1	690	23.2	<u>693</u>	<u>23.1</u>	2	<u>687</u>	<u>23.4</u>	686	23.4	687	23.3		
447.dealII	2	767	29.8	753	30.4	<u>756</u>	<u>30.3</u>	2	733	31.2	738	31.0	<u>736</u>	<u>31.1</u>		
450.soplex	2	1122	14.9	<u>1122</u>	<u>14.9</u>	1125	14.8	2	1047	15.9	1050	15.9	<u>1048</u>	<u>15.9</u>		
453.povray	2	<u>309</u>	<u>34.5</u>	306	34.8	309	34.4	2	263	40.5	258	41.2	<u>259</u>	<u>41.1</u>		
454.calculix	2	751	22.0	763	21.6	<u>757</u>	<u>21.8</u>	2	584	28.2	<u>577</u>	<u>28.6</u>	576	28.6		
459.GemsFDTD	2	1554	13.7	<u>1572</u>	<u>13.5</u>	1579	13.4	2	1428	14.9	<u>1445</u>	<u>14.7</u>	1453	14.6		
465.tonto	2	932	21.1	950	20.7	<u>939</u>	<u>21.0</u>	2	<u>923</u>	<u>21.3</u>	921	21.4	925	21.3		
470.lbm	2	2071	13.3	2074	13.3	<u>2072</u>	<u>13.3</u>	2	2018	13.6	<u>2019</u>	<u>13.6</u>	2022	13.6		
481.wrf	2	890	25.1	<u>891</u>	<u>25.1</u>	893	25.0	2	<u>891</u>	<u>25.1</u>	894	25.0	891	25.1		
482.sphinx3	2	1705	22.9	<u>1707</u>	<u>22.8</u>	1722	22.6	2	1610	24.2	<u>1612</u>	<u>24.2</u>	1621	24.0		

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

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

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

C++ benchmarks:

-fast

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast



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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.deallI: -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
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
```

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Peak Optimization Flags (Continued)

482.sphinx3: -fast -unroll2

C++ benchmarks:

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

447.dealIII: -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 -Ob0
-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 -Ob0
-prefetch

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

Benchmarks using both Fortran and C:

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.html>



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

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

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