



SPEC® CFP2006 Result

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Acer Incorporated

SPECfp®_rate2006 = 22.2

Acer Altos R720 (Intel Xeon 5130)

SPECfp_rate_base2006 = 20.5

CPU2006 license: 97

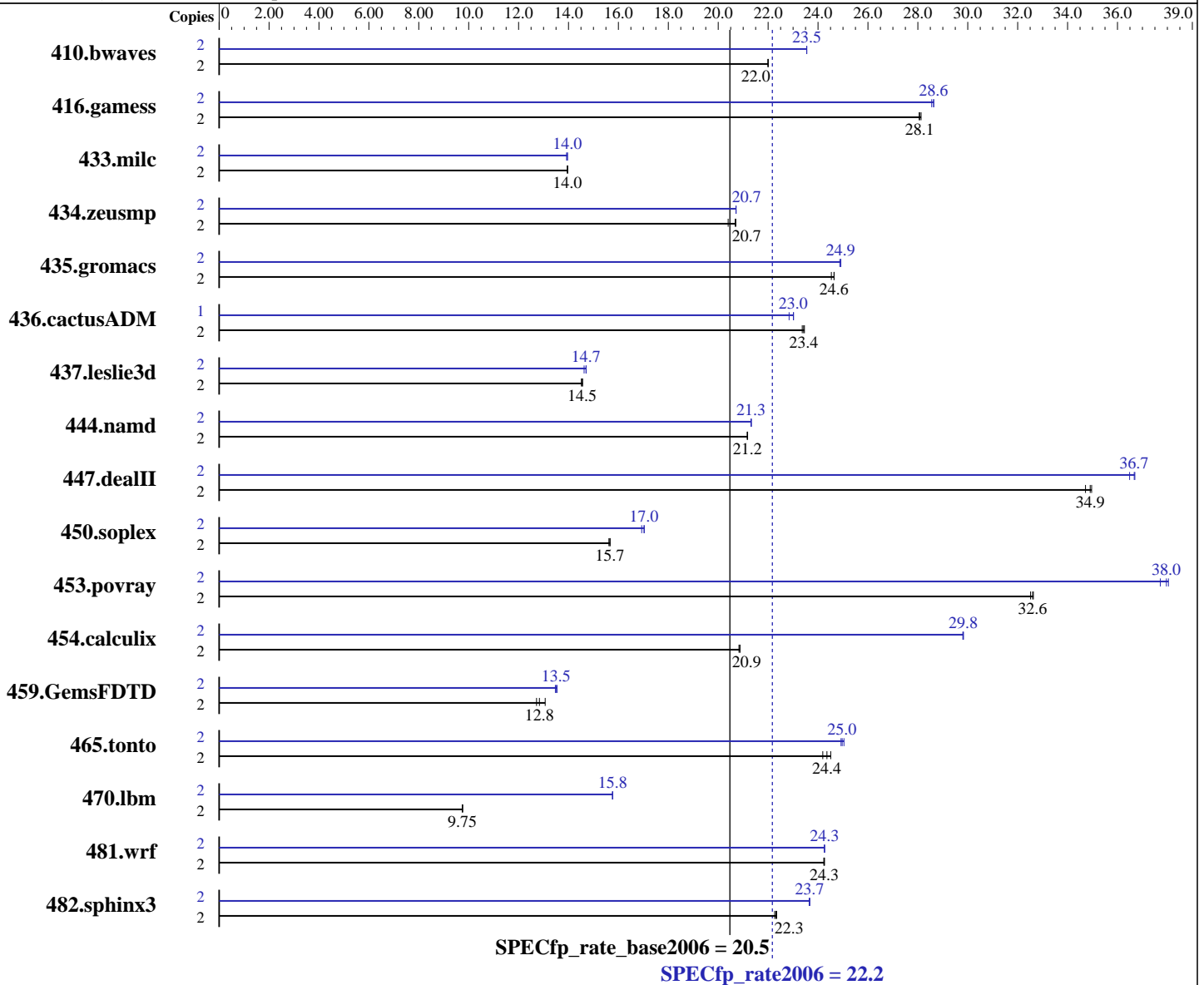
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1, 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip

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Software

Operating System: SuSE Linux Enterprise Server 10 SP1 EM64T (kernel 2.6.16.46-0.12-smp)
 Compiler: Intel C++ and Fortran Compiler 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008, l_fc_p_10.1.008
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Multi-user, level 3
 Base Pointers: 64-bit

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 x 2048MB ECC FB-DIMM DDR2-667 CL5-5-5)
Disk Subsystem: 1 x 73GB 10000PRM SAS HDD
Other Hardware: None

Peak Pointers: 32/64-bit
Other Software: Binutils 2.17.50.0.15

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1235	22.0	<u>1236</u>	<u>22.0</u>	1236	22.0	2	1154	23.5	1154	23.5	<u>1154</u>	<u>23.5</u>
416.gamess	2	1392	28.1	<u>1395</u>	<u>28.1</u>	1396	28.1	2	1371	28.6	<u>1368</u>	<u>28.6</u>	1368	28.6
433.milc	2	1316	14.0	1315	14.0	<u>1315</u>	<u>14.0</u>	2	<u>1315</u>	<u>14.0</u>	1315	14.0	1319	13.9
434.zeusmp	2	<u>880</u>	<u>20.7</u>	892	20.4	879	20.7	2	879	20.7	<u>879</u>	<u>20.7</u>	878	20.7
435.gromacs	2	582	24.5	<u>580</u>	<u>24.6</u>	579	24.6	2	<u>573</u>	<u>24.9</u>	574	24.9	573	24.9
436.cactusADM	2	<u>1020</u>	<u>23.4</u>	1023	23.4	1019	23.5	1	519	23.0	523	22.8	<u>519</u>	<u>23.0</u>
437.leslie3d	2	<u>1292</u>	<u>14.5</u>	1291	14.6	1295	14.5	2	1278	14.7	<u>1279</u>	<u>14.7</u>	1285	14.6
444.namd	2	757	21.2	<u>758</u>	<u>21.2</u>	758	21.2	2	753	21.3	752	21.3	<u>752</u>	<u>21.3</u>
447.dealII	2	<u>655</u>	<u>34.9</u>	654	35.0	659	34.7	2	623	36.7	<u>624</u>	<u>36.7</u>	627	36.5
450.soplex	2	1068	15.6	<u>1065</u>	<u>15.7</u>	1065	15.7	2	979	17.0	985	16.9	<u>980</u>	<u>17.0</u>
453.povray	2	326	32.6	<u>326</u>	<u>32.6</u>	327	32.5	2	282	37.7	<u>280</u>	<u>38.0</u>	280	38.0
454.calculix	2	791	20.9	792	20.8	<u>791</u>	<u>20.9</u>	2	<u>553</u>	<u>29.8</u>	553	29.8	554	29.8
459.GemsFDTD	2	<u>1653</u>	<u>12.8</u>	1668	12.7	1624	13.1	2	<u>1572</u>	<u>13.5</u>	1575	13.5	1567	13.5
465.tonto	2	803	24.5	<u>808</u>	<u>24.4</u>	814	24.2	2	790	24.9	786	25.0	<u>788</u>	<u>25.0</u>
470.lbm	2	2815	9.76	<u>2819</u>	<u>9.75</u>	2819	9.75	2	1743	15.8	<u>1743</u>	<u>15.8</u>	1743	15.8
481.wrf	2	<u>921</u>	<u>24.3</u>	921	24.3	922	24.2	2	921	24.3	<u>921</u>	<u>24.3</u>	921	24.3
482.sphinx3	2	1751	22.3	1745	22.3	<u>1747</u>	<u>22.3</u>	2	1649	23.6	<u>1647</u>	<u>23.7</u>	1647	23.7

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

General Notes

This result was measured on the Acer Altos R520.
The Altos R720 and Altos R520 are electronically equivalent.

All benchmarks compiled in 64-bit mode except 437.leslie3d, 450.soplex
470.lbm and 482.sphinx3, at peak, are compiled in 32-bit mode

BIOS Setting

Hardware Prefetcher set to ON
Adjacent Cache Line Prefetch set to ON
Optimization for high-frequency FSB applications set to ON

All results used taskset to bind processes to cores.



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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.deall: -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/Intel-ic10.1-FP-intel64-linux-flags.20090714.06.html>



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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.06.xml>

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