



SPEC® CFP2006 Result

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Acer Incorporated

SPECfp®_rate2006 = 39.6

Acer Altos R720 (Intel Xeon 5130)

SPECfp_rate_base2006 = 36.6

CPU2006 license: 97

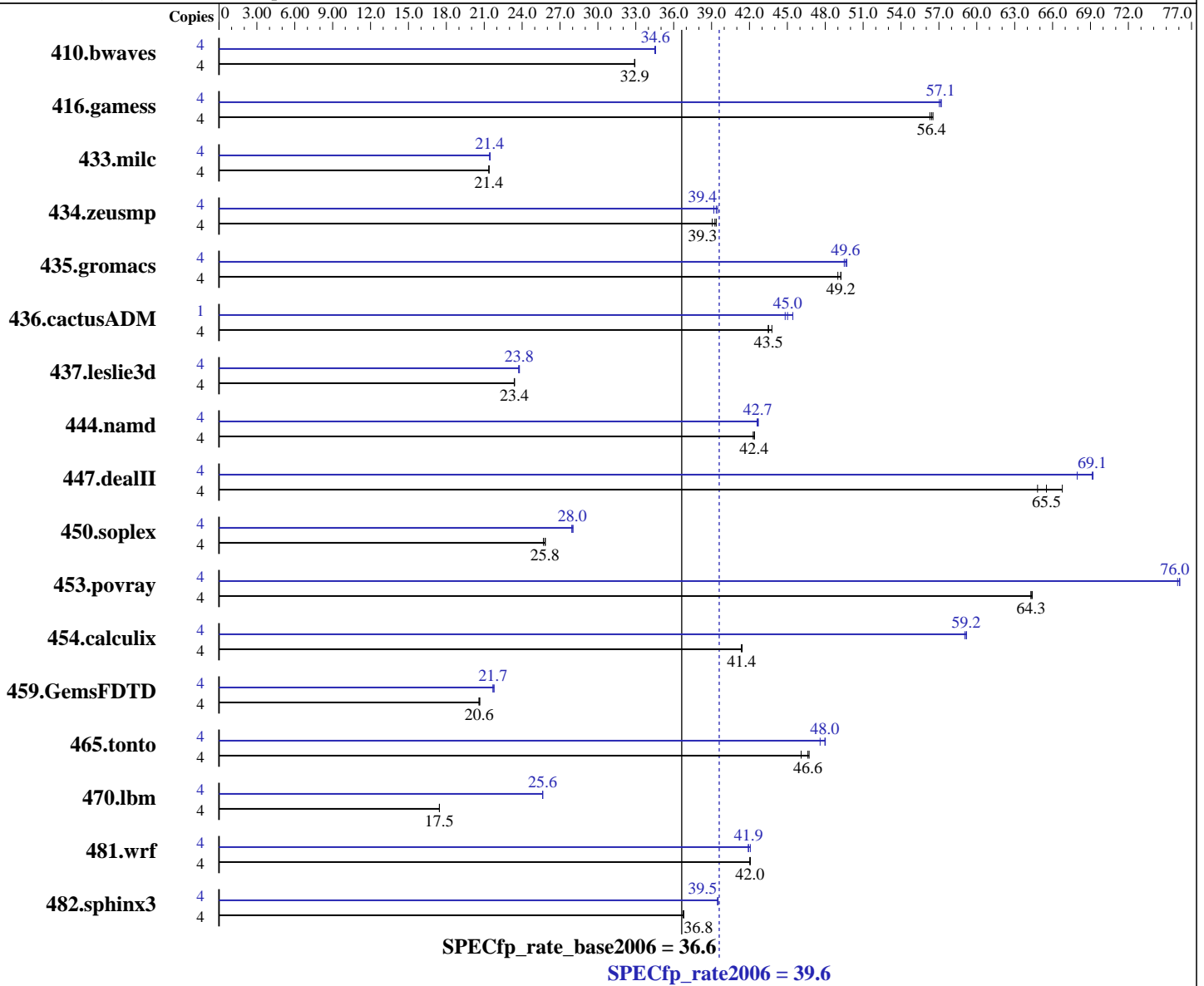
Test sponsor: Acer Incorporated

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: 4 cores, 2 chips, 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: Microquill SmartHeap V8.1
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	4	<u>1652</u>	<u>32.9</u>	1652	32.9	1651	32.9	4	<u>1573</u>	<u>34.6</u>	1572	34.6	1575	34.5
416.gamess	4	1385	56.5	1391	56.3	<u>1388</u>	<u>56.4</u>	4	<u>1370</u>	<u>57.1</u>	1373	57.0	1369	57.2
433.milc	4	1718	21.4	1718	21.4	<u>1718</u>	<u>21.4</u>	4	1710	21.5	1714	21.4	<u>1713</u>	<u>21.4</u>
434.zeusmp	4	932	39.1	925	39.4	<u>927</u>	<u>39.3</u>	4	922	39.5	<u>925</u>	<u>39.4</u>	929	39.2
435.gromacs	4	583	49.0	580	49.2	<u>580</u>	<u>49.2</u>	4	<u>576</u>	<u>49.6</u>	575	49.7	577	49.5
436.cactusADM	4	<u>1098</u>	<u>43.5</u>	1092	43.8	1099	43.5	1	267	44.8	263	45.4	<u>265</u>	<u>45.0</u>
437.leslie3d	4	1607	23.4	<u>1608</u>	<u>23.4</u>	1609	23.4	4	1581	23.8	1585	23.7	<u>1583</u>	<u>23.8</u>
444.namd	4	757	42.4	758	42.3	<u>757</u>	<u>42.4</u>	4	751	42.7	<u>752</u>	<u>42.7</u>	753	42.6
447.dealII	4	706	64.8	685	66.8	<u>698</u>	<u>65.5</u>	4	<u>662</u>	<u>69.1</u>	673	67.9	661	69.2
450.soplex	4	1291	25.8	1299	25.7	<u>1293</u>	<u>25.8</u>	4	1190	28.0	1194	27.9	<u>1193</u>	<u>28.0</u>
453.povray	4	330	64.4	<u>331</u>	<u>64.3</u>	331	64.3	4	280	76.1	<u>280</u>	<u>76.0</u>	280	75.9
454.calculix	4	797	41.4	798	41.4	<u>798</u>	<u>41.4</u>	4	<u>558</u>	<u>59.2</u>	558	59.2	559	59.0
459.GemsFDTD	4	<u>2060</u>	<u>20.6</u>	2061	20.6	2055	20.7	4	<u>1955</u>	<u>21.7</u>	1948	21.8	1956	21.7
465.tonto	4	<u>844</u>	<u>46.6</u>	842	46.7	854	46.1	4	<u>820</u>	<u>48.0</u>	820	48.0	827	47.6
470.lbm	4	3149	17.5	<u>3150</u>	<u>17.5</u>	3150	17.4	4	<u>2145</u>	<u>25.6</u>	2145	25.6	2144	25.6
481.wrf	4	1063	42.0	<u>1063</u>	<u>42.0</u>	1062	42.1	4	1062	42.1	<u>1066</u>	<u>41.9</u>	1066	41.9
482.sphinx3	4	2118	36.8	<u>2119</u>	<u>36.8</u>	2121	36.8	4	1976	39.5	1973	39.5	<u>1973</u>	<u>39.5</u>

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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