



SPEC® CFP2006 Result

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Acer Incorporated

SPECfp®_rate2006 = 38.0

Acer Altos R720 (Intel Xeon E5205)

SPECfp_rate_base2006 = 34.9

CPU2006 license: 97

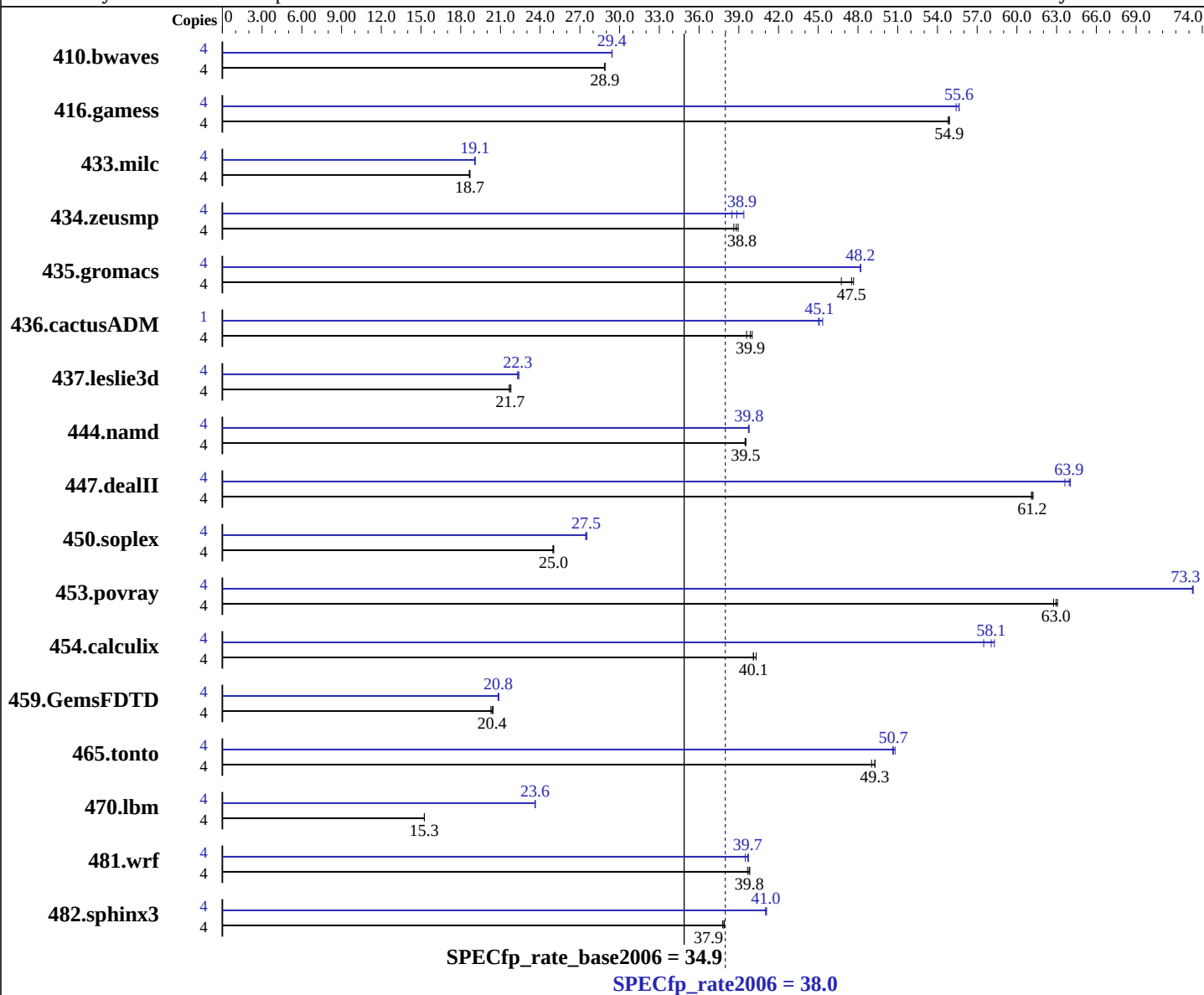
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Mar-2008

Hardware Availability: Nov-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5205
CPU Characteristics: 1066MHz system bus
CPU MHz: 1860
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: 6 MB I+D on chip per chip

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Software

Operating System: SuSE Linux Enterprise Server 10 SP1 (x86_64)
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	Seconds	Ratio
410.bwaves	4	1883	28.9	1882	28.9	<u>1882</u>	<u>28.9</u>	4	1847	29.4	<u>1847</u>	<u>29.4</u>	1848	29.4		
416.gamess	4	<u>1427</u>	<u>54.9</u>	1427	54.9	1429	54.8	4	1414	55.4	<u>1408</u>	<u>55.6</u>	1408	55.6		
433.milc	4	1964	18.7	<u>1965</u>	<u>18.7</u>	1970	18.6	4	<u>1924</u>	<u>19.1</u>	1926	19.1	1923	19.1		
434.zeusmp	4	942	38.6	<u>938</u>	<u>38.8</u>	934	39.0	4	<u>937</u>	<u>38.9</u>	924	39.4	946	38.5		
435.gromacs	4	611	46.7	<u>601</u>	<u>47.5</u>	599	47.7	4	<u>593</u>	<u>48.2</u>	593	48.2	592	48.2		
436.cactusADM	4	<u>1199</u>	<u>39.9</u>	1195	40.0	1207	39.6	1	<u>265</u>	<u>45.1</u>	264	45.3	265	45.0		
437.leslie3d	4	<u>1730</u>	<u>21.7</u>	1736	21.7	1726	21.8	4	1687	22.3	<u>1686</u>	<u>22.3</u>	1678	22.4		
444.namd	4	<u>812</u>	<u>39.5</u>	813	39.5	812	39.5	4	807	39.8	807	39.7	<u>807</u>	<u>39.8</u>		
447.dealII	4	747	61.2	749	61.1	<u>748</u>	<u>61.2</u>	4	715	64.0	719	63.6	<u>716</u>	<u>63.9</u>		
450.soplex	4	1337	25.0	<u>1334</u>	<u>25.0</u>	1333	25.0	4	<u>1214</u>	<u>27.5</u>	1212	27.5	1216	27.4		
453.povray	4	337	63.1	<u>338</u>	<u>63.0</u>	339	62.8	4	290	73.3	291	73.3	<u>290</u>	<u>73.3</u>		
454.calculix	4	<u>823</u>	<u>40.1</u>	823	40.1	819	40.3	4	<u>568</u>	<u>58.1</u>	574	57.5	566	58.3		
459.GemsFDTD	4	2093	20.3	2076	20.4	<u>2084</u>	<u>20.4</u>	4	2032	20.9	2038	20.8	<u>2037</u>	<u>20.8</u>		
465.tonto	4	799	49.3	<u>799</u>	<u>49.3</u>	803	49.0	4	775	50.8	778	50.6	<u>777</u>	<u>50.7</u>		
470.lbm	4	3604	15.3	<u>3603</u>	<u>15.3</u>	3603	15.3	4	2327	23.6	<u>2327</u>	<u>23.6</u>	2326	23.6		
481.wrf	4	<u>1123</u>	<u>39.8</u>	1127	39.7	1122	39.8	4	1125	39.7	<u>1126</u>	<u>39.7</u>	1132	39.5		
482.sphinx3	4	<u>2058</u>	<u>37.9</u>	2064	37.8	2057	37.9	4	1897	41.1	<u>1900</u>	<u>41.0</u>	1900	41.0		

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 Settings

Hardware Prefetcher set to ON

Adjacent Cache Line Prefetch set to ON

All results but peak 436.cactusADM used taskset to bind
processes to cores.

"ulimit -s unlimited" was set for stacksize unlimited

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General Notes (Continued)

OMP_NUM_THREADS set to number of cores

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

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Base Optimization Flags (Continued)

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  
465.tonto: -DSPEC_CPU_LP64  
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```



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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 -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

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Peak Optimization Flags (Continued)

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-linux64-revC.20090713.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.xml>

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