



# SPEC<sup>®</sup> CFP2006 Result

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## Acer Incorporated

## SPECfp<sup>®</sup>\_rate2006 = 21.7

## Acer Altos G540 (Intel Xeon 5130)

## SPECfp\_rate\_base2006 = 20.3

CPU2006 license: 97

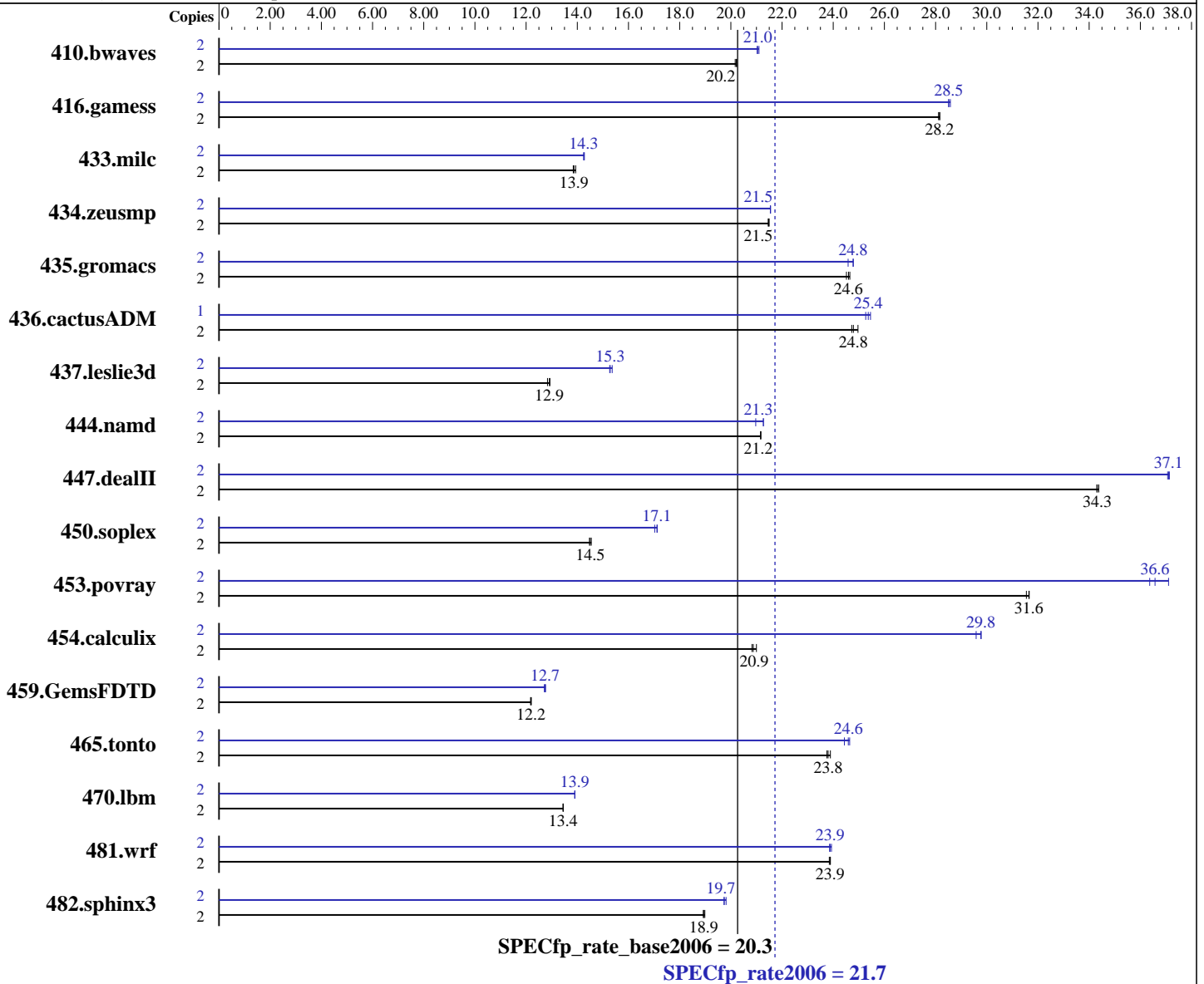
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-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 chip  
 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 EM64T (kernel 2.6.16.21-0.8-smp)  
 Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070725  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Multi-user, run 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 73 GB 10000RPM SAS HDD  
Other Hardware: None

Peak Pointers: 32/64-bit  
Other Software: MicroQuill SmartHeap Library 8.1

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	<b><u>1345</u></b>	<b><u>20.2</u></b>	1344	20.2	1348	20.2	2	1293	21.0	1288	21.1	<b><u>1291</u></b>	<b><u>21.0</u></b>
416.gamess	2	1393	28.1	1390	28.2	<b><u>1391</u></b>	<b><u>28.2</u></b>	2	1370	28.6	<b><u>1373</u></b>	<b><u>28.5</u></b>	1374	28.5
433.milc	2	1326	13.8	<b><u>1324</u></b>	<b><u>13.9</u></b>	1317	13.9	2	<b><u>1288</u></b>	<b><u>14.3</u></b>	1288	14.3	1286	14.3
434.zeusmp	2	848	21.5	<b><u>847</u></b>	<b><u>21.5</u></b>	847	21.5	2	<b><u>845</u></b>	<b><u>21.5</u></b>	845	21.5	844	21.6
435.gromacs	2	579	24.6	582	24.5	<b><u>581</u></b>	<b><u>24.6</u></b>	2	576	24.8	<b><u>576</u></b>	<b><u>24.8</u></b>	581	24.6
436.cactusADM	2	967	24.7	957	25.0	<b><u>964</u></b>	<b><u>24.8</u></b>	1	473	25.3	<b><u>471</u></b>	<b><u>25.4</u></b>	469	25.5
437.leslie3d	2	<b><u>1456</u></b>	<b><u>12.9</u></b>	1454	12.9	1465	12.8	2	1231	15.3	<b><u>1230</u></b>	<b><u>15.3</u></b>	1224	15.4
444.namd	2	758	21.2	758	21.2	<b><u>758</u></b>	<b><u>21.2</u></b>	2	765	21.0	754	21.3	<b><u>754</u></b>	<b><u>21.3</u></b>
447.dealII	2	666	34.4	<b><u>667</u></b>	<b><u>34.3</u></b>	667	34.3	2	617	37.1	616	37.1	<b><u>617</u></b>	<b><u>37.1</u></b>
450.soplex	2	1147	14.5	<b><u>1150</u></b>	<b><u>14.5</u></b>	1152	14.5	2	980	17.0	<b><u>975</u></b>	<b><u>17.1</u></b>	974	17.1
453.povray	2	336	31.7	337	31.5	<b><u>336</u></b>	<b><u>31.6</u></b>	2	287	37.1	293	36.4	<b><u>291</u></b>	<b><u>36.6</u></b>
454.calculix	2	786	21.0	792	20.8	<b><u>790</u></b>	<b><u>20.9</u></b>	2	<b><u>554</u></b>	<b><u>29.8</u></b>	558	29.6	554	29.8
459.GemsFDTD	2	1743	12.2	<b><u>1741</u></b>	<b><u>12.2</u></b>	1739	12.2	2	<b><u>1666</u></b>	<b><u>12.7</u></b>	1669	12.7	1663	12.8
465.tonto	2	824	23.9	<b><u>827</u></b>	<b><u>23.8</u></b>	829	23.8	2	799	24.6	805	24.4	<b><u>800</u></b>	<b><u>24.6</u></b>
470.lbm	2	2042	13.5	<b><u>2044</u></b>	<b><u>13.4</u></b>	2044	13.4	2	1976	13.9	<b><u>1976</u></b>	<b><u>13.9</u></b>	1976	13.9
481.wrf	2	935	23.9	<b><u>936</u></b>	<b><u>23.9</u></b>	937	23.8	2	936	23.9	933	23.9	<b><u>936</u></b>	<b><u>23.9</u></b>
482.sphinx3	2	<b><u>2058</u></b>	<b><u>18.9</u></b>	2053	19.0	2060	18.9	2	1967	19.8	1975	19.7	<b><u>1975</u></b>	<b><u>19.7</u></b>

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

## General Notes

All results used taskset to bind processes to cores.

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc

Fortran benchmarks:  
ifort

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Test date: Oct-2007

Hardware Availability: Nov-2006

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## Base Compiler Invocation (Continued)

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

## Peak Compiler Invocation

C benchmarks (except as noted below):

```

/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icc
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

```

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## Peak Compiler Invocation (Continued)

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icpc  
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib  
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/ifort  
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib  
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/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

## 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-req- -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.20090714.17.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.20090714.17.xml>

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