



# SPEC<sup>®</sup> CFP2006 Result

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## Acer Incorporated

## SPECfp<sup>®</sup>\_rate2006 = 18.9

## Acer Altos G540 (Intel Xeon 5120)

## SPECfp\_rate\_base2006 = 17.5

CPU2006 license: 97

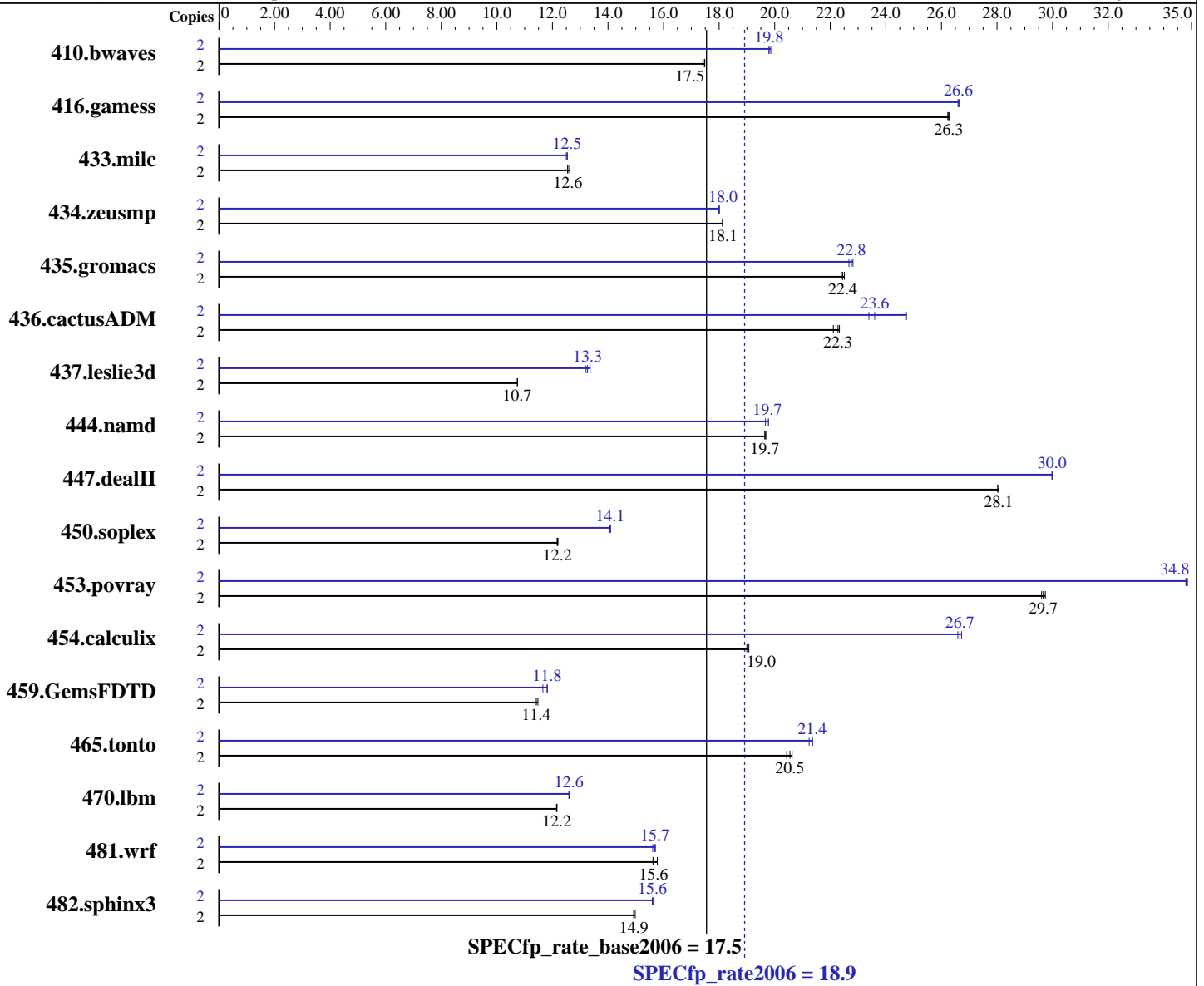
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Sep-2007

Hardware Availability: Nov-2006

Software Availability: Aug-2007



### Hardware

CPU Name: Intel Xeon 5120  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 1860  
 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 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: No  
 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	1554	17.5	1561	17.4	<b>1556</b>	<b>17.5</b>	2	<b>1373</b>	<b>19.8</b>	1373	19.8	1369	19.9
416.gamess	2	<b>1491</b>	<b>26.3</b>	1490	26.3	1493	26.2	2	1470	26.6	1472	26.6	<b>1471</b>	<b>26.6</b>
433.milc	2	1455	12.6	1463	12.5	<b>1463</b>	<b>12.6</b>	2	<b>1466</b>	<b>12.5</b>	1464	12.5	1469	12.5
434.zeusmp	2	1004	18.1	<b>1004</b>	<b>18.1</b>	1004	18.1	2	1011	18.0	<b>1011</b>	<b>18.0</b>	1011	18.0
435.gromacs	2	<b>636</b>	<b>22.4</b>	634	22.5	637	22.4	2	<b>627</b>	<b>22.8</b>	626	22.8	630	22.7
436.cactusADM	2	<b>1073</b>	<b>22.3</b>	1081	22.1	1070	22.3	2	1022	23.4	966	24.7	<b>1013</b>	<b>23.6</b>
437.leslie3d	2	<b>1751</b>	<b>10.7</b>	1759	10.7	1750	10.7	2	1423	13.2	1407	13.4	<b>1418</b>	<b>13.3</b>
444.namd	2	815	19.7	817	19.6	<b>816</b>	<b>19.7</b>	2	816	19.7	811	19.8	<b>813</b>	<b>19.7</b>
447.dealII	2	815	28.1	817	28.0	<b>815</b>	<b>28.1</b>	2	763	30.0	<b>763</b>	<b>30.0</b>	763	30.0
450.soplex	2	<b>1369</b>	<b>12.2</b>	1367	12.2	1371	12.2	2	1186	14.1	<b>1184</b>	<b>14.1</b>	1184	14.1
453.povray	2	359	29.6	358	29.7	<b>359</b>	<b>29.7</b>	2	<b>306</b>	<b>34.8</b>	305	34.9	306	34.8
454.calculix	2	869	19.0	<b>867</b>	<b>19.0</b>	865	19.1	2	<b>619</b>	<b>26.7</b>	617	26.7	621	26.6
459.GemsFDTD	2	1865	11.4	<b>1858</b>	<b>11.4</b>	1849	11.5	2	1795	11.8	<b>1798</b>	<b>11.8</b>	1820	11.7
465.tonto	2	<b>958</b>	<b>20.5</b>	954	20.6	963	20.4	2	<b>922</b>	<b>21.4</b>	921	21.4	927	21.2
470.lbm	2	2259	12.2	<b>2261</b>	<b>12.2</b>	2262	12.1	2	2182	12.6	<b>2181</b>	<b>12.6</b>	2181	12.6
481.wrf	2	1430	15.6	<b>1429</b>	<b>15.6</b>	1416	15.8	2	1431	15.6	1422	15.7	<b>1424</b>	<b>15.7</b>
482.sphinx3	2	2611	14.9	2602	15.0	<b>2611</b>	<b>14.9</b>	2	2500	15.6	2494	15.6	<b>2499</b>	<b>15.6</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

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## Base Compiler Invocation (Continued)

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

## 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

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## Peak Compiler Invocation (Continued)

C benchmarks (except as noted below) (continued):

-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

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

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## Peak Optimization Flags (Continued)

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 -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32



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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>

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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