SPEC® CFP2006 Result
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Acer Incorporated
Acer Altos G330 Mk2

SPECfp®_rate2006 = 44.7
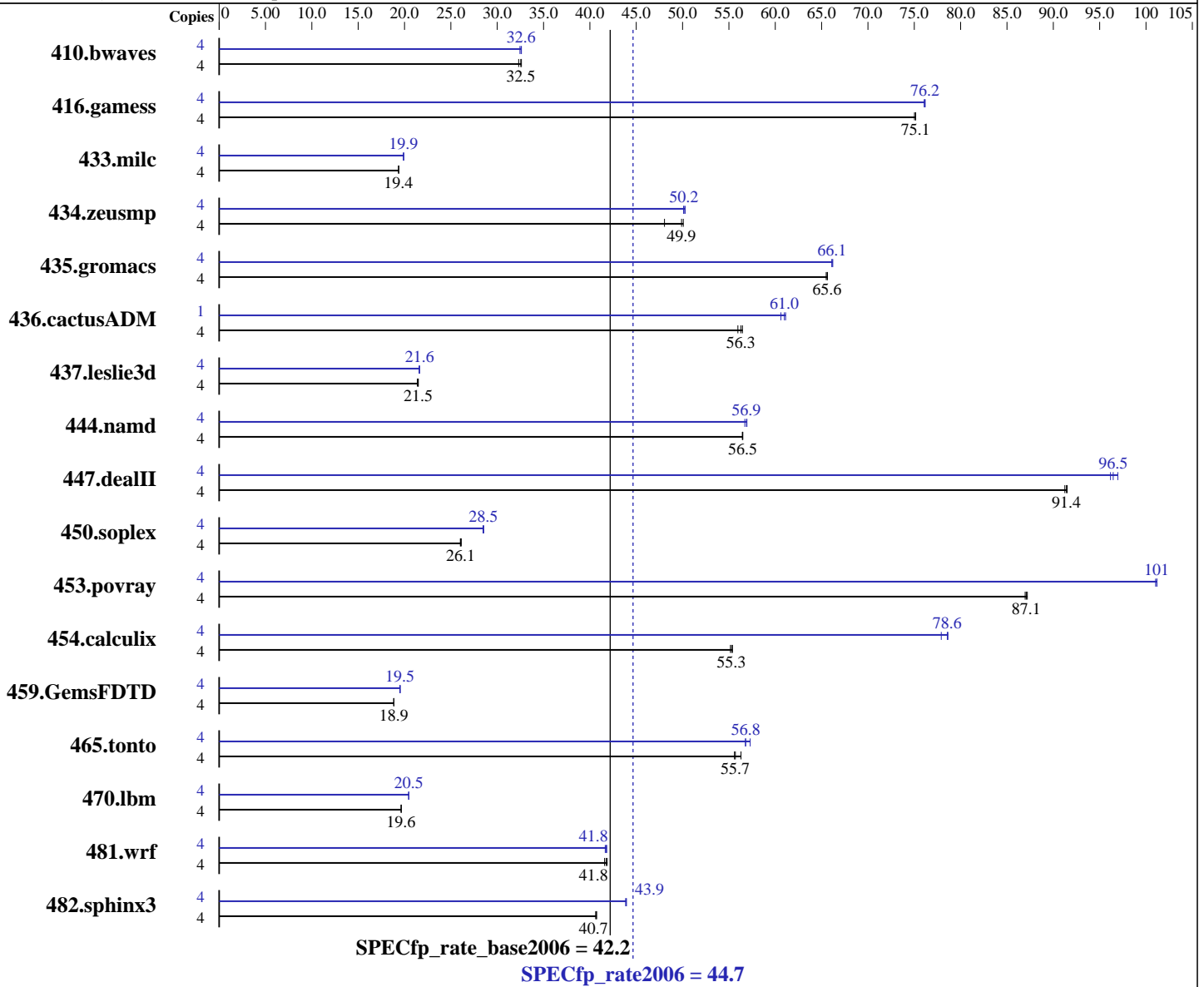
SPECfp_rate_base2006 = 42.2

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Nov-2007
Hardware Availability: Nov-2007
Software Availability: Nov-2007

Benchmark	Copies	Result
410.bwaves	4	32.6
	4	32.5
416.gamess	4	76.2
	4	75.1
433.milc	4	19.9
	4	19.4
434.zeusmp	4	50.2
	4	49.9
435.gromacs	4	66.1
	4	65.6
436.cactusADM	1	61.0
	4	56.3
437.leslie3d	4	21.6
	4	21.5
444.namd	4	56.9
	4	56.5
447.dealII	4	96.5
	4	91.4
450.soplex	4	28.5
	4	26.1
453.povray	4	101
	4	87.1
454.calculix	4	78.6
	4	55.3
459.GemsFDTD	4	19.5
	4	18.9
465.tonto	4	56.8
	4	55.7
470.lbm	4	20.5
	4	19.6
481.wrf	4	41.8
	4	41.8
482.sphinx3	4	43.9
	4	40.7

SPECfp_rate_base2006 = 42.2

SPECfp_rate2006 = 44.7

Hardware
CPU Name: Intel Xeon X3230
CPU Characteristics: 1066 MHz system bus
CPU MHz: 2660
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

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, run level 3
Base Pointers: 64-bit

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L3 Cache: None
Other Cache: None
Memory: 8 GB (4 x 2048 MB ECC Unbuffered DDR2-800 CL5)
Disk Subsystem: 1 x 160 GB 7200RPM SATA HDD
Other Hardware: None

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

Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1682	32.3	1667	32.6	**1670**	**32.5**	4	1675	32.5	**1669**	**32.6**	1667	32.6
416.gamess	4	**1042**	**75.1**	1044	75.0	1042	75.2	4	1028	76.2	**1028**	**76.2**	1030	76.1
433.milc	4	1896	19.4	1896	19.4	**1896**	**19.4**	4	1846	19.9	1844	19.9	**1845**	**19.9**
434.zeusmp	4	727	50.1	**730**	**49.9**	758	48.0	4	724	50.3	726	50.1	**726**	**50.2**
435.gromacs	4	436	65.5	435	65.6	**435**	**65.6**	4	432	66.1	431	66.2	**432**	**66.1**
436.cactusADM	4	854	56.0	847	56.5	**849**	**56.3**	1	196	61.1	197	60.6	**196**	**61.0**
437.leslie3d	4	1750	21.5	**1751**	**21.5**	1758	21.4	4	1743	21.6	**1739**	**21.6**	1739	21.6
444.namd	4	**568**	**56.5**	568	56.4	568	56.5	4	566	56.7	**564**	**56.9**	563	56.9
447.dealII	4	**501**	**91.4**	500	91.5	502	91.2	4	**474**	**96.5**	476	96.2	472	97.0
450.soplex	4	1282	26.0	1277	26.1	**1280**	**26.1**	4	1169	28.5	1172	28.5	**1170**	**28.5**
453.povray	4	244	87.2	245	87.0	**244**	**87.1**	4	210	101	211	101	**210**	**101**
454.calculix	4	598	55.2	**597**	**55.3**	596	55.4	4	**420**	**78.6**	420	78.6	424	77.9
459.GemsFDTD	4	2253	18.8	**2251**	**18.9**	2251	18.9	4	2173	19.5	**2174**	**19.5**	2177	19.5
465.tonto	4	699	56.3	708	55.6	**707**	**55.7**	4	687	57.3	693	56.8	**693**	**56.8**
470.lbm	4	2798	19.6	2798	19.6	**2798**	**19.6**	4	2686	20.5	2687	20.5	**2687**	**20.5**
481.wrf	4	1067	41.9	**1070**	**41.8**	1075	41.6	4	1073	41.7	1068	41.8	**1070**	**41.8**
482.sphinx3	4	**1915**	**40.7**	1915	40.7	1919	40.6	4	**1776**	**43.9**	1777	43.9	1774	44.0

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

General Notes

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

taskset used to bind copies to cores, except for 436.cactusADM peak
OMP_NUM_THREADS was set to number of logical processors as seen by the OS
KMP_AFFINITY was set to physical,0

Base Compiler Invocation

C benchmarks:
    icc

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Base Compiler Invocation (Continued)

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.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-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.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`

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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