SPEC® CFP2006 Result
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Acer Incorporated

Acer Altos G540 (Intel Xeon 5160)

$SPECfp^®\_rate2006 =$ 26.3

$SPECfp\_rate\_base2006 =$ 24.4

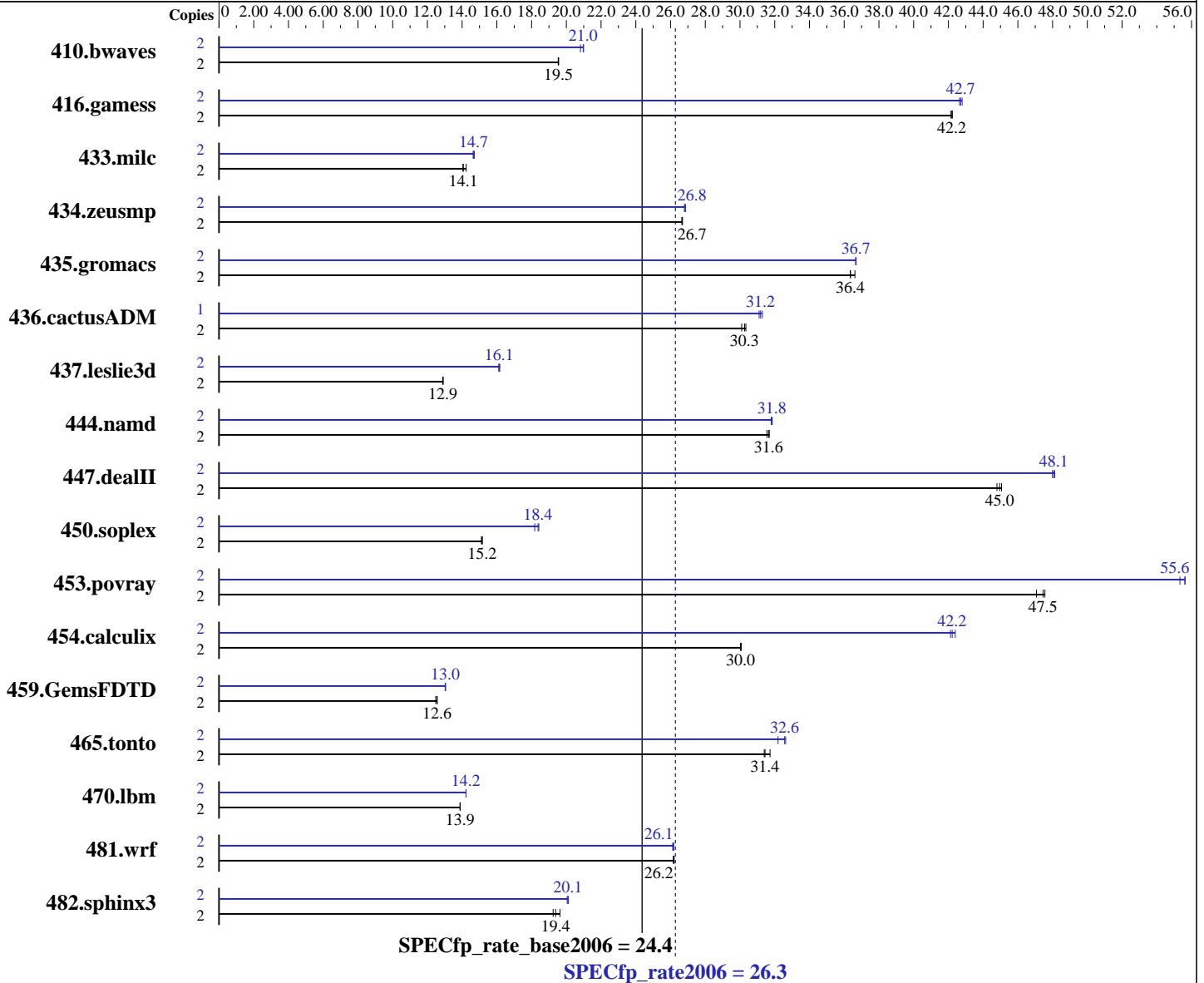**CPU2006 license:** 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Oct-2007
Hardware Availability: Nov-2006
Software Availability: Nov-2007

Benchmark	Copies	Result
410.bwaves	2	21.0
	2	19.5
416.gamess	2	42.7
	2	42.2
433.milc	2	14.7
	2	14.1
434.zeusmp	2	26.8
	2	26.7
435.gromacs	2	36.7
	2	36.4
436.cactusADM	1	31.2
	2	30.3
437.leslie3d	2	16.1
	2	12.9
444.namd	2	31.8
	2	31.6
447.dealII	2	48.1
	2	45.0
450.soplex	2	18.4
	2	15.2
453.povray	2	55.6
	2	47.5
454.calculix	2	42.2
	2	30.0
459.GemsFDTD	2	13.0
	2	12.6
465.tonto	2	32.6
	2	31.4
470.lbm	2	14.2
	2	13.9
481.wrf	2	26.1
	2	26.2
482.sphinx3	2	20.1
	2	19.4

SPECfp_rate_base2006 = 24.4

SPECfp_rate2006 = 26.3

Hardware

CPU Name: Intel Xeon 5160
CPU Characteristics: 1333MHz system bus
CPU MHz: 3000
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	Peak Pointers:	32/64-bit
Other Cache:	None	Other Software:	MicroQuill SmartHeap Library 8.1
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		

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1392	19.5	**1391**	**19.5**	1390	19.6	2	1295	21.0	**1296**	**21.0**	1306	20.8
416.gamess	2	**928**	**42.2**	927	42.2	929	42.1	2	918	42.6	915	42.8	**917**	**42.7**
433.milc	2	1290	14.2	**1305**	**14.1**	1307	14.0	2	1255	14.6	**1252**	**14.7**	1249	14.7
434.zeusmp	2	**683**	**26.7**	683	26.7	682	26.7	2	679	26.8	**678**	**26.8**	678	26.9
435.gromacs	2	390	36.6	**393**	**36.4**	393	36.4	2	389	36.7	**389**	**36.7**	389	36.7
436.cactusADM	2	794	30.1	788	30.3	**790**	**30.3**	1	382	31.3	384	31.1	**383**	**31.2**
437.leslie3d	2	**1458**	**12.9**	1456	12.9	1459	12.9	2	1163	16.2	1167	16.1	**1165**	**16.1**
444.namd	2	506	31.7	508	31.6	**507**	**31.6**	2	503	31.9	**504**	**31.8**	504	31.8
447.dealII	2	**509**	**45.0**	508	45.1	511	44.8	2	475	48.1	**476**	**48.1**	477	48.0
450.soplex	2	1104	15.1	**1101**	**15.2**	1100	15.2	2	917	18.2	906	18.4	**908**	**18.4**
453.povray	2	226	47.1	**224**	**47.5**	224	47.6	2	192	55.3	191	55.6	**191**	**55.6**
454.calculix	2	549	30.1	549	30.0	**549**	**30.0**	2	**391**	**42.2**	389	42.4	392	42.1
459.GemsFDTD	2	1701	12.5	**1690**	**12.6**	1689	12.6	2	**1628**	**13.0**	1627	13.0	1630	13.0
465.tonto	2	620	31.7	627	31.4	**626**	**31.4**	2	603	32.6	**604**	**32.6**	611	32.2
470.lbm	2	1979	13.9	**1979**	**13.9**	1980	13.9	2	1932	14.2	**1932**	**14.2**	1932	14.2
481.wrf	2	852	26.2	**853**	**26.2**	854	26.2	2	**854**	**26.1**	855	26.1	853	26.2
482.sphinx3	2	**2011**	**19.4**	1985	19.6	2026	19.2	2	1937	20.1	1944	20.0	**1940**	**20.1**

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

General Notes

```
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
```

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 -parallel -auto-ilp32`

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

481.wrf: `-fast -auto-ilp32`

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CPU2006 license: 97		**Test date:**	Oct-2007
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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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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