SPEC® CFP2006 Result

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Acer Incorporated

Acer Altos G540 (Intel Xeon E5335)

$SPECfp^®\_rate2006 =$ 32.3

$SPECfp\_rate\_base2006 =$ 30.0
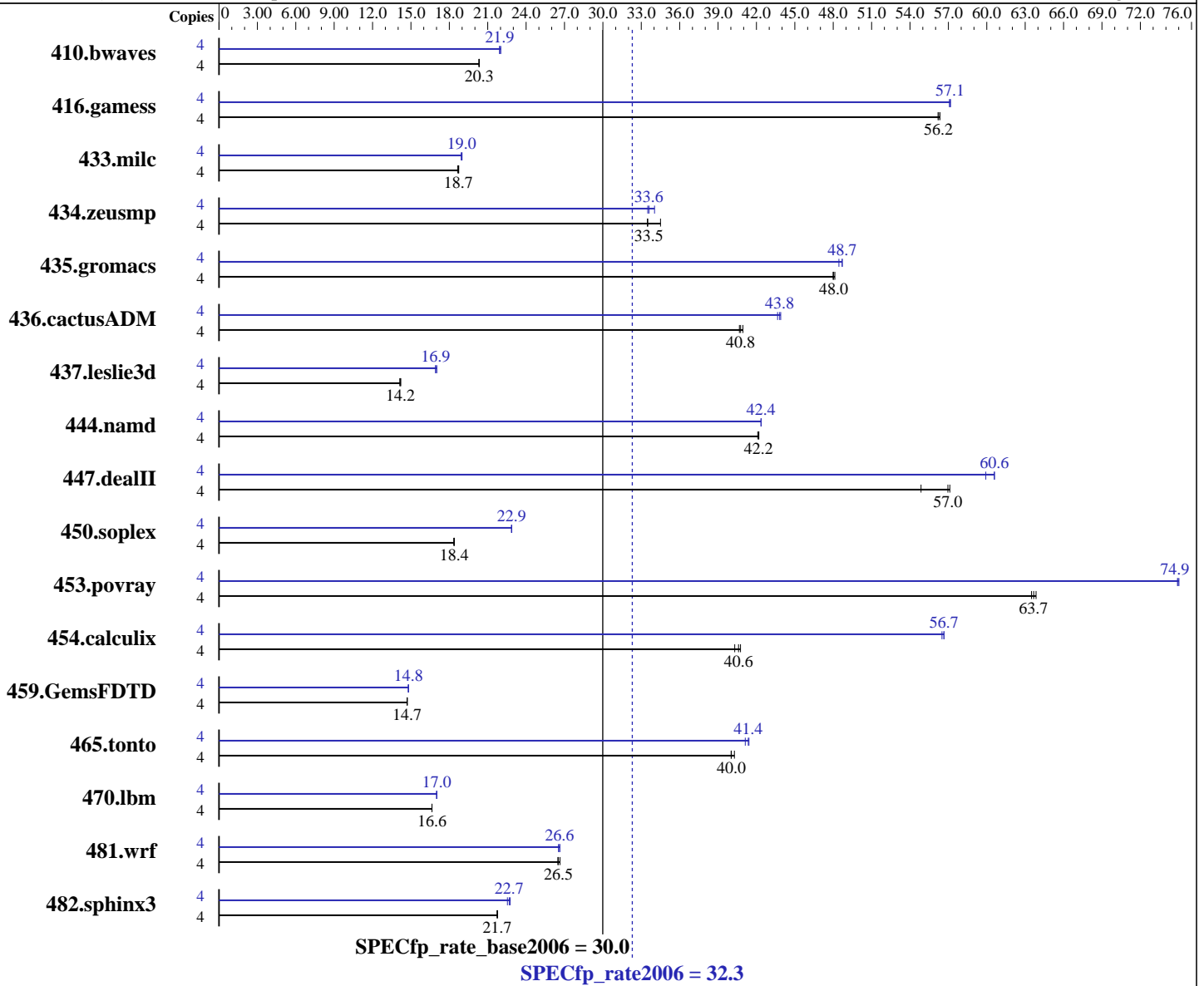
CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Sep-2007

Hardware Availability: Nov-2006

Software Availability: Aug-2007

Copies — benchmark results:

Benchmark	Copies	Peak	Base
410.bwaves	4	21.9	20.3
416.gamess	4	57.1	56.2
433.milc	4	19.0	18.7
434.zeusmp	4	33.6	33.5
435.gromacs	4	48.7	48.0
436.cactusADM	4	43.8	40.8
437.leslie3d	4	16.9	14.2
444.namd	4	42.4	42.2
447.dealII	4	60.6	57.0
450.soplex	4	22.9	18.4
453.povray	4	74.9	63.7
454.calculix	4	56.7	40.6
459.GemsFDTD	4	14.8	14.7
465.tonto	4	41.4	40.0
470.lbm	4	17.0	16.6
481.wrf	4	26.6	26.5
482.sphinx3	4	22.7	21.7

SPECfp_rate_base2006 = 30.0

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Hardware

CPU Name: Intel Xeon E5335

CPU Characteristics: 1333MHz system bus

CPU MHz: 2000

FPU: Integrated

CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip

CPU(s) orderable: 1, 2 chips

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

Continued on next page

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

Continued on next page

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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	4	2672	20.3	**2673**	**20.3**	2677	20.3	4	**2477**	**21.9**	2480	21.9	2469	22.0
416.gamess	4	**1393**	**56.2**	1394	56.2	1390	56.3	4	1372	57.1	**1371**	**57.1**	1370	57.2
433.milc	4	1960	18.7	1969	18.7	**1962**	**18.7**	4	1933	19.0	**1936**	**19.0**	1940	18.9
434.zeusmp	4	**1086**	**33.5**	1087	33.5	1055	34.5	4	1086	33.5	1069	34.0	**1083**	**33.6**
435.gromacs	4	**595**	**48.0**	593	48.1	595	48.0	4	**586**	**48.7**	590	48.4	586	48.7
436.cactusADM	4	1168	40.9	**1173**	**40.8**	1175	40.7	4	1089	43.9	1095	43.7	**1091**	**43.8**
437.leslie3d	4	**2651**	**14.2**	2647	14.2	2662	14.1	4	2209	17.0	**2221**	**16.9**	2222	16.9
444.namd	4	762	42.1	**761**	**42.2**	760	42.2	4	757	42.4	757	42.4	**757**	**42.4**
447.dealII	4	834	54.9	801	57.1	**803**	**57.0**	4	**755**	**60.6**	764	59.9	755	60.6
450.soplex	4	1818	18.3	**1815**	**18.4**	1814	18.4	4	**1458**	**22.9**	1458	22.9	1460	22.9
453.povray	4	335	63.5	**334**	**63.7**	333	63.8	4	284	74.9	**284**	**74.9**	284	75.0
454.calculix	4	819	40.3	**813**	**40.6**	810	40.8	4	**583**	**56.7**	582	56.7	584	56.5
459.GemsFDTD	4	**2886**	**14.7**	2887	14.7	2885	14.7	4	2868	14.8	2867	14.8	**2867**	**14.8**
465.tonto	4	983	40.0	977	40.3	**983**	**40.0**	4	957	41.1	950	41.4	**952**	**41.4**
470.lbm	4	3301	16.6	**3302**	**16.6**	3303	16.6	4	3231	17.0	**3231**	**17.0**	3229	17.0
481.wrf	4	**1685**	**26.5**	1687	26.5	1677	26.6	4	1684	26.5	**1679**	**26.6**	1678	26.6
482.sphinx3	4	3581	21.8	3587	21.7	**3587**	**21.7**	4	3425	22.8	**3437**	**22.7**	3459	22.5

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

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

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