SPEC® CFP2006 Result
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Acer Incorporated

Acer Altos G330 (Intel Xeon X3220, 2.4 GHz)

$SPECfp®\_rate2006 =$ 34.8

$SPECfp\_rate\_base2006 =$ 34.3
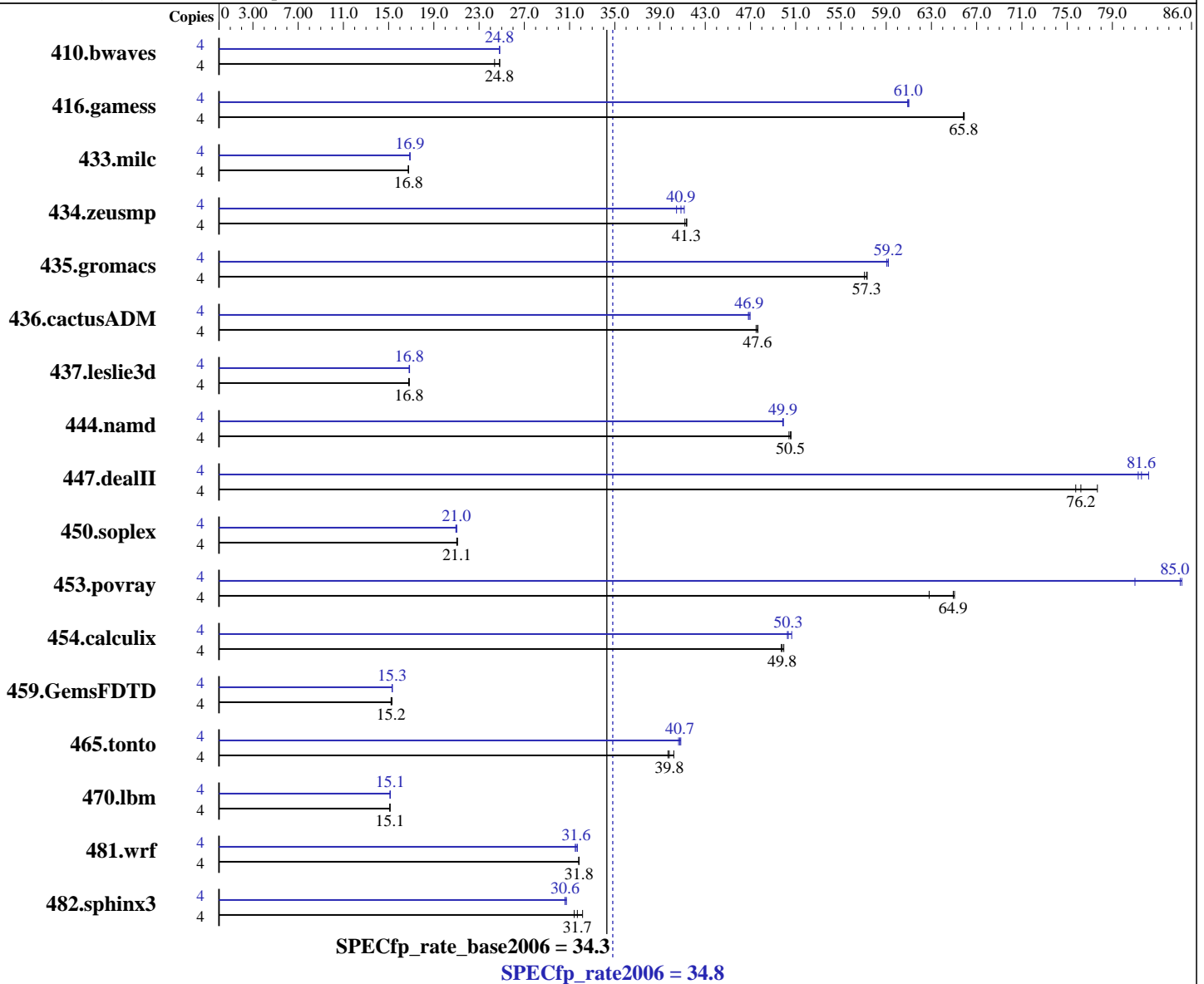
CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Feb-2007

Hardware Availability: Jan-2006

Software Availability: Nov-2006

Copies			
410.bwaves	4	24.8	
	4	24.8	
416.gamess	4	61.0	
	4	65.8	
433.milc	4	16.9	
	4	16.8	
434.zeusmp	4	40.9	
	4	41.3	
435.gromacs	4	59.2	
	4	57.3	
436.cactusADM	4	46.9	
	4	47.6	
437.leslie3d	4	16.8	
	4	16.8	
444.namd	4	49.9	
	4	50.5	
447.dealII	4	81.6	
	4	76.2	
450.soplex	4	21.0	
	4	21.1	
453.povray	4	85.0	
	4	64.9	
454.calculix	4	50.3	
	4	49.8	
459.GemsFDTD	4	15.3	
	4	15.2	
465.tonto	4	40.7	
	4	39.8	
470.lbm	4	15.1	
	4	15.1	
481.wrf	4	31.6	
	4	31.8	
482.sphinx3	4	30.6	
	4	31.7	

SPECfp_rate_base2006 = 34.3

SPECfp_rate2006 = 34.8

Hardware

CPU Name: Intel Xeon X3220

CPU Characteristics: 1066MHz system bus

CPU MHz: 2400

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

Continued on next page

Software

Operating System: SUSE Linux Enterprise Server 10 EM64T (Kernel 2.6.16.21-0.8-smp)

Compiler: Intel C++ Compiler 9.1 for Intel EM64T-based Package ID l_cc_c_9.1.042 Build no 20060707 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101

Auto Parallel: No

File System: ReiserFS

Continued on next page

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L3 Cache:	None	System State:	Default
Other Cache:	None	Base Pointers:	64-bit
Memory:	4 GB (4 x 1024MB ECC DDR2-667 CL5-5-5)	Peak Pointers:	32/64-bit
Disk Subsystem:	1 x 320GB 7200RPM SATA HDD	Other Software:	--
Other Hardware:	None		

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	2231	24.4	2190	24.8	**2191**	**24.8**	4	**2192**	**24.8**	2192	24.8	2190	24.8
416.gamess	4	**1189**	**65.8**	1189	65.8	1188	65.9	4	**1285**	**61.0**	1284	61.0	1286	60.9
433.milc	4	2194	16.7	2190	16.8	**2192**	**16.8**	4	2174	16.9	2176	16.9	**2175**	**16.9**
434.zeusmp	4	883	41.2	**880**	**41.3**	880	41.4	4	885	41.1	**891**	**40.9**	900	40.5
435.gromacs	4	**499**	**57.3**	498	57.3	500	57.1	4	**483**	**59.2**	484	59.0	483	59.2
436.cactusADM	4	1006	47.5	**1004**	**47.6**	1003	47.7	4	**1020**	**46.9**	1018	47.0	1021	46.8
437.leslie3d	4	2242	16.8	**2238**	**16.8**	2234	16.8	4	2231	16.9	**2234**	**16.8**	2235	16.8
444.namd	4	634	50.6	**635**	**50.5**	636	50.4	4	643	49.9	644	49.8	**643**	**49.9**
447.dealII	4	589	77.7	**600**	**76.2**	604	75.8	4	557	82.2	563	81.3	**561**	**81.6**
450.soplex	4	1581	21.1	**1584**	**21.1**	1587	21.0	4	**1589**	**21.0**	1593	20.9	1586	21.0
453.povray	4	339	62.8	327	65.0	**328**	**64.9**	4	263	81.0	250	85.1	**250**	**85.0**
454.calculix	4	**663**	**49.8**	661	49.9	664	49.7	4	652	50.6	**656**	**50.3**	657	50.3
459.GemsFDTD	4	2774	15.3	2788	15.2	**2788**	**15.2**	4	2770	15.3	2771	15.3	**2771**	**15.3**
465.tonto	4	991	39.7	**989**	**39.8**	979	40.2	4	964	40.8	968	40.6	**966**	**40.7**
470.lbm	4	3637	15.1	**3635**	**15.1**	3635	15.1	4	3632	15.1	**3632**	**15.1**	3630	15.1
481.wrf	4	**1404**	**31.8**	1403	31.8	1404	31.8	4	1418	31.5	**1415**	**31.6**	1410	31.7
482.sphinx3	4	2425	32.2	2482	31.4	**2460**	**31.7**	4	2537	30.7	**2546**	**30.6**	2548	30.6

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

General Notes

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Base Compiler Invocation

C benchmarks:
    icc

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:
    icc

C++ benchmarks:
    icpc

Fortran benchmarks:
    ifort

Benchmarks using both Fortran and C:
    icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
    -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
    -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
    -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Benchmarks using both Fortran and C:
    -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.xml

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

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