



SPEC[®] CFP2006 Result

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Acer Incorporated

SPECfp[®]_rate2006 = 57.2

Acer Altos R720 (Intel Xeon X5355, 2.66GHz)

SPECfp_rate_base2006 = 56.3

CPU2006 license: 97

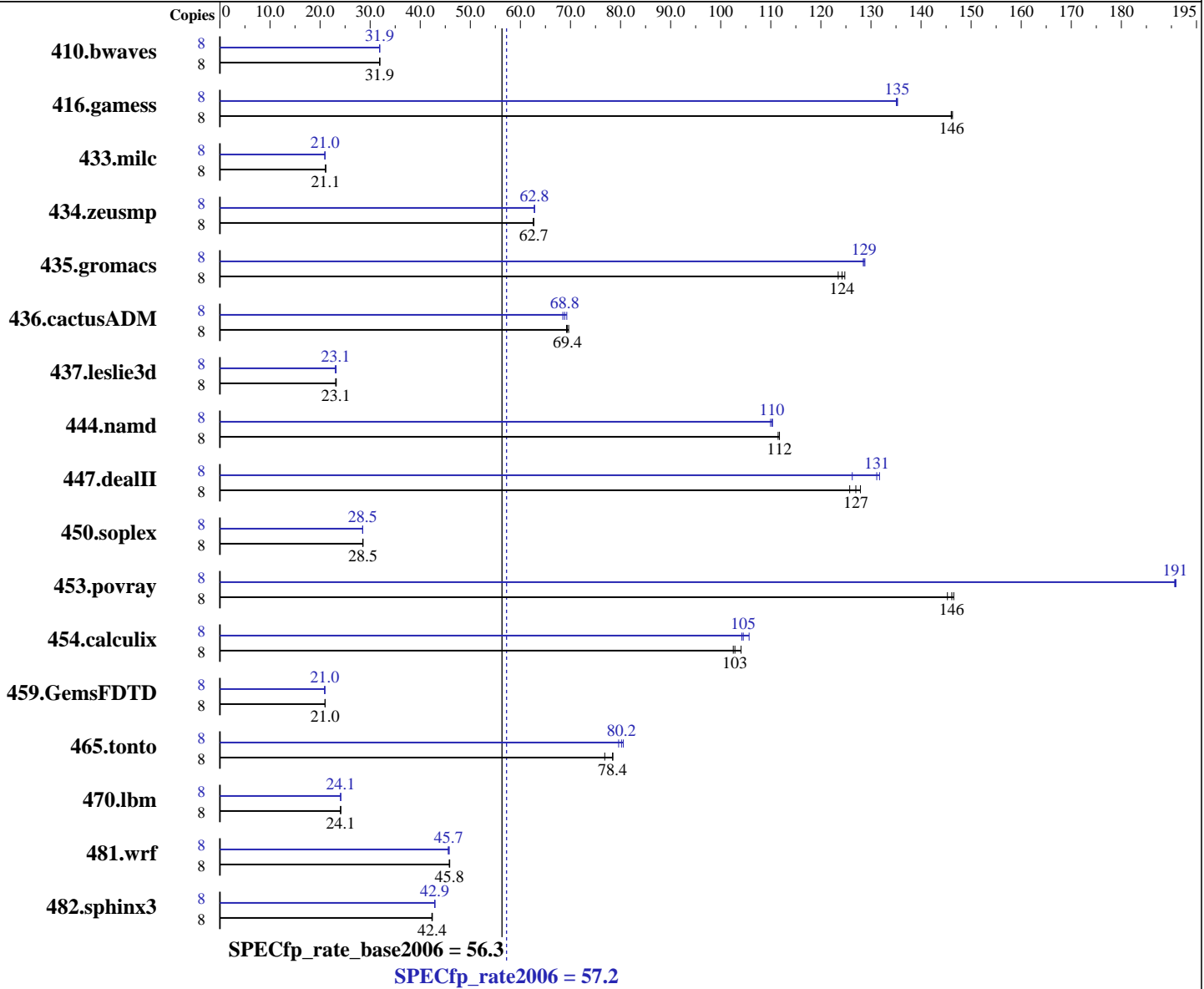
Test date: Feb-2007

Test sponsor: Acer Incorporated

Hardware Availability: Nov-2006

Tested by: Acer Incorporated

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2666
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 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

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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: ext2

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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 73GB 10000RPM SAS HDD
Other Hardware: None

System State: Default
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: --

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3411	31.9	<u>3407</u>	<u>31.9</u>	3403	31.9	8	3408	31.9	<u>3408</u>	<u>31.9</u>	3408	31.9
416.gamess	8	1071	146	<u>1072</u>	<u>146</u>	1073	146	8	<u>1158</u>	<u>135</u>	1158	135	1160	135
433.milc	8	3482	21.1	3477	21.1	<u>3478</u>	<u>21.1</u>	8	3505	21.0	<u>3500</u>	<u>21.0</u>	3499	21.0
434.zeusmp	8	1164	62.5	<u>1161</u>	<u>62.7</u>	1161	62.7	8	1158	62.9	<u>1159</u>	<u>62.8</u>	1160	62.8
435.gromacs	8	<u>460</u>	<u>124</u>	458	125	463	123	8	444	129	445	128	<u>444</u>	<u>129</u>
436.cactusADM	8	<u>1378</u>	<u>69.4</u>	1381	69.2	1373	69.6	8	1380	69.3	<u>1389</u>	<u>68.8</u>	1396	68.5
437.leslie3d	8	3235	23.2	3251	23.1	<u>3249</u>	<u>23.1</u>	8	3261	23.1	<u>3254</u>	<u>23.1</u>	3240	23.2
444.namd	8	576	111	<u>574</u>	<u>112</u>	574	112	8	581	110	584	110	<u>582</u>	<u>110</u>
447.dealII	8	728	126	<u>721</u>	<u>127</u>	716	128	8	725	126	<u>698</u>	<u>131</u>	695	132
450.soplex	8	<u>2338</u>	<u>28.5</u>	2334	28.6	2340	28.5	8	2339	28.5	2341	28.5	<u>2340</u>	<u>28.5</u>
453.povray	8	290	147	<u>291</u>	<u>146</u>	293	145	8	<u>223</u>	<u>191</u>	223	191	223	191
454.calculix	8	<u>642</u>	<u>103</u>	644	103	634	104	8	625	106	<u>632</u>	<u>105</u>	633	104
459.GemsFDTD	8	4048	21.0	4037	21.0	<u>4038</u>	<u>21.0</u>	8	4064	20.9	4049	21.0	<u>4050</u>	<u>21.0</u>
465.tonto	8	1003	78.5	1024	76.8	<u>1004</u>	<u>78.4</u>	8	989	79.6	977	80.5	<u>982</u>	<u>80.2</u>
470.lbm	8	<u>4559</u>	<u>24.1</u>	4562	24.1	4558	24.1	8	<u>4558</u>	<u>24.1</u>	4558	24.1	4559	24.1
481.wrf	8	1950	45.8	1947	45.9	<u>1950</u>	<u>45.8</u>	8	<u>1957</u>	<u>45.7</u>	1960	45.6	1951	45.8
482.sphinx3	8	3684	42.3	<u>3678</u>	<u>42.4</u>	3676	42.4	8	3631	42.9	<u>3635</u>	<u>42.9</u>	3635	42.9

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

This result was measured on the Acer Altos R520.
The Altos R720 and Altos R520 are electronically equivalent.



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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 other inquiries, please contact webmaster@spec.org.

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