



SPEC[®] CFP2006 Result

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ACTION S.A.

SPECfp[®]_rate2006 = 55.9

ACTINA SOLAR 202 X2 (Intel Xeon E5405, 2.0 GHz)

SPECfp_rate_base2006 = 54.1

CPU2006 license: 9008

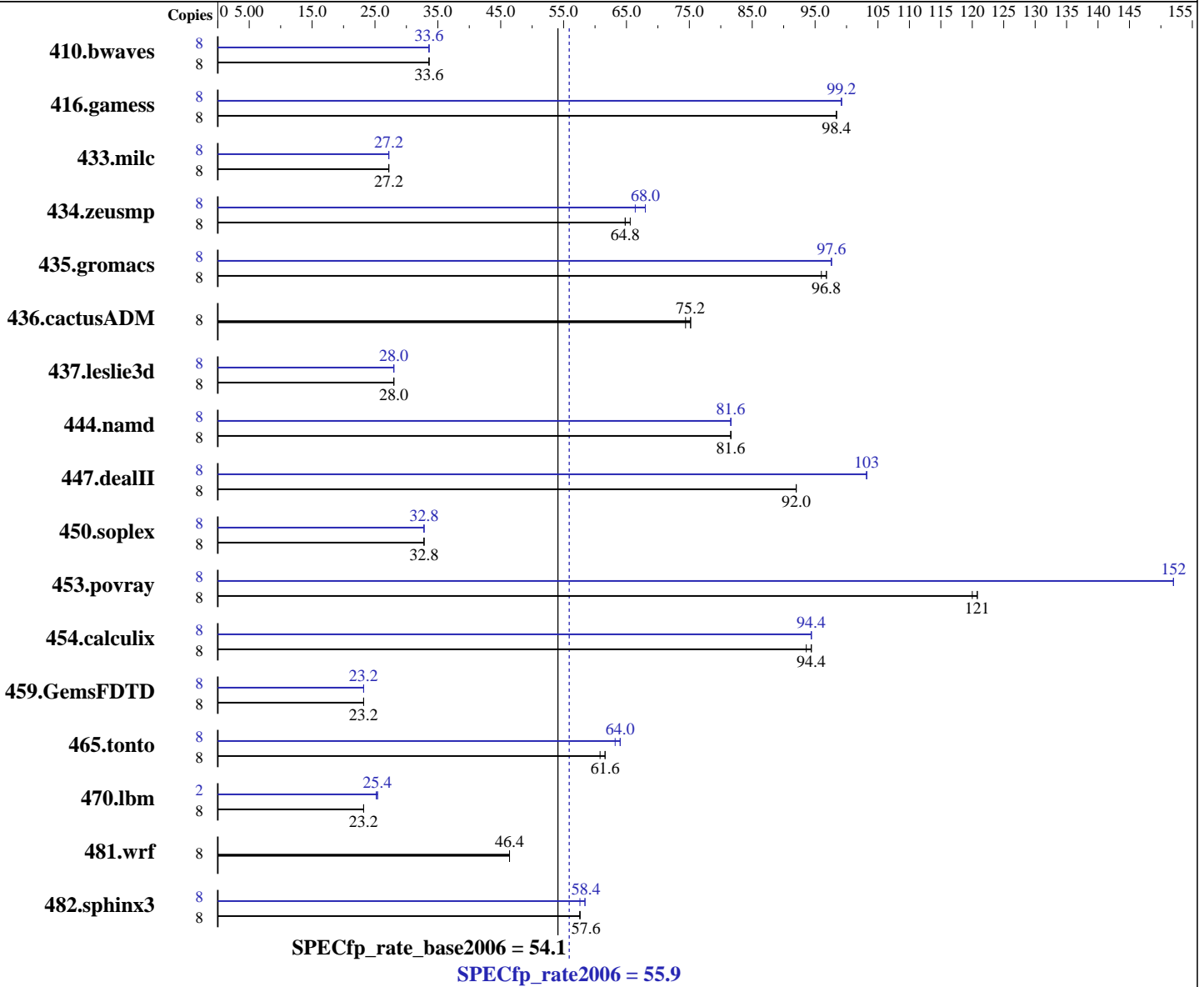
Test sponsor: ACTION S.A.

Tested by: ACTION S.A.

Test date: Nov-2008

Hardware Availability: Sep-2008

Software Availability: Nov-2008



Hardware

CPU Name: Intel Xeon E5405
 CPU Characteristics: 1333 MHz System Bus
 CPU MHz: 2000
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

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Software

Operating System: Windows 2003 Server Enterprise Edition (32-bit) Service Pack 2
 Compiler: Intel C++ Compiler Professional 11.0 for IA32 Build 20080930 Package ID: w_cproc_p_11.0.054
 Intel Visual Fortran Compiler Professional 11.0 for IA32 Build 20080930 Package ID: w_fproc_p_11.0.054
 Microsoft Visual Studio 2008 (for libraries)
 Auto Parallel: No
 File System: NTFS

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Hardware (Continued)

L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2 GB PC2-5300, CL 5-5-5, ECC)
 Disk Subsystem: RAID 10 (6x300 GB SAS, 15K RPM)
 Other Hardware: None

Software (Continued)

System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 8.1 from <http://www.microquill.com/>

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	8	3234	33.6	<u>3234</u>	<u>33.6</u>	3233	33.6	8	3235	33.6	<u>3235</u>	<u>33.6</u>	3234	33.6		
416.gamess	8	1588	98.4	<u>1588</u>	<u>98.4</u>	1588	98.4	8	1582	99.2	1581	99.2	<u>1581</u>	<u>99.2</u>		
433.milc	8	<u>2677</u>	<u>27.2</u>	2677	27.2	2678	27.2	8	2678	27.2	2680	27.2	<u>2679</u>	<u>27.2</u>		
434.zeusmp	8	<u>1122</u>	<u>64.8</u>	1114	65.6	1122	64.8	8	1091	66.4	<u>1075</u>	<u>68.0</u>	1070	68.0		
435.gromacs	8	593	96.0	592	96.8	<u>592</u>	<u>96.8</u>	8	584	97.6	583	97.6	<u>583</u>	<u>97.6</u>		
436.cactusADM	8	1278	75.2	1278	74.4	<u>1278</u>	<u>75.2</u>	8	1278	75.2	1278	74.4	<u>1278</u>	<u>75.2</u>		
437.leslie3d	8	2714	28.0	<u>2714</u>	<u>28.0</u>	2713	28.0	8	2693	28.0	<u>2702</u>	<u>28.0</u>	2702	28.0		
444.namd	8	787	81.6	786	81.6	<u>786</u>	<u>81.6</u>	8	787	81.6	<u>786</u>	<u>81.6</u>	786	81.6		
447.dealII	8	<u>999</u>	<u>92.0</u>	999	92.0	998	92.0	8	<u>889</u>	<u>103</u>	889	103	888	103		
450.soplex	8	2053	32.8	<u>2017</u>	<u>32.8</u>	2016	32.8	8	2057	32.8	<u>2020</u>	<u>32.8</u>	2018	32.8		
453.povray	8	354	120	353	121	<u>353</u>	<u>121</u>	8	280	152	280	152	<u>280</u>	<u>152</u>		
454.calculix	8	702	93.6	<u>700</u>	<u>94.4</u>	699	94.4	8	<u>699</u>	<u>94.4</u>	699	94.4	698	94.4		
459.GemsFDTD	8	3649	23.2	3632	23.2	<u>3634</u>	<u>23.2</u>	8	3699	23.2	3684	23.2	<u>3685</u>	<u>23.2</u>		
465.tonto	8	1295	60.8	<u>1286</u>	<u>61.6</u>	1272	61.6	8	1230	64.0	1239	63.2	<u>1237</u>	<u>64.0</u>		
470.lbm	8	<u>4760</u>	<u>23.2</u>	4760	23.2	4760	23.2	2	1084	25.4	<u>1085</u>	<u>25.4</u>	1087	25.2		
481.wrf	8	1934	46.4	1932	46.4	<u>1933</u>	<u>46.4</u>	8	1934	46.4	1932	46.4	<u>1933</u>	<u>46.4</u>		
482.sphinx3	8	2702	57.6	<u>2700</u>	<u>57.6</u>	2699	57.6	8	2701	57.6	2667	58.4	<u>2678</u>	<u>58.4</u>		

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

Submit Notes

The config file option 'submit' was used.

General Notes

Binaries were built on Windows Vista Ultimate (32-bit)
Start command was used to bind processes to CPUs



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Compiler Invocation

C benchmarks:

icl -Qvc9 -Qc99

C++ benchmarks:

icl -Qvc9

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -Qc99 ifort

Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:

-QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

C++ benchmarks:

-QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

-QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

Benchmarks using both Fortran and C:

-QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

Peak Optimization Flags

C benchmarks:

433.milc: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Oa /F1000000000

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Peak Optimization Flags (Continued)

470.lbm: -QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000

482.sphinx3: -QxSSSE3 -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000

C++ benchmarks:

444.namd: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Oa /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

447.dealII: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
-Qscalar-rep- /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

450.soplex: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

453.povray: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 -Qansi-alias /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000

416.gamess: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias
-Qscalar-rep- /F1000000000

434.zeusmp: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- /F1000000000

437.leslie3d: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

459.GemsFDTD: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qopt-prefetch
/F1000000000

465.tonto: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000

Benchmarks using both Fortran and C:

435.gromacs: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

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Peak Optimization Flags (Continued)

436.cactusADM: basepeak = yes

454.calculix: -QxSSSE3 -Qipo -O3 -Qprec-div- /F1000000000

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090713.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090713.xml>

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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.1.
Report generated on Mon Jul 13 18:41:48 2009 by SPEC CPU2006 PS/PDF formatter v6323.