



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®_rate2006 = 238

Dell Precision T7500 (Intel Xeon X5680, 3.33 GHz)

SPECfp_rate_base2006 = 236

CPU2006 license: 55

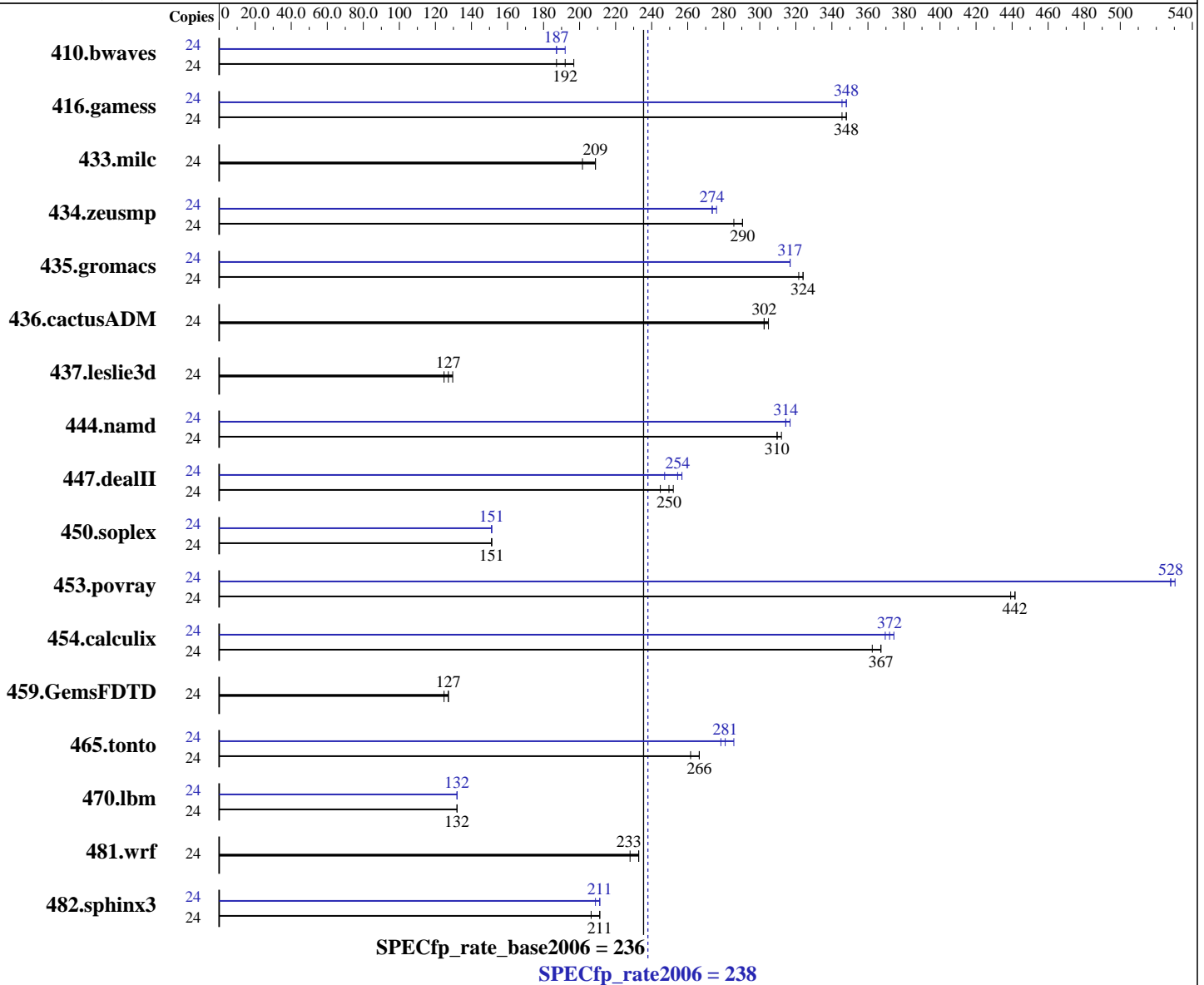
Test date: Mar-2010

Test sponsor: Dell Inc.

Hardware Availability: Mar-2010

Tested by: Dell Inc.

Software Availability: Dec-2009



Hardware

CPU Name: Intel Xeon X5680
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz
 CPU MHz: 3333
 FPU: Integrated
 CPU(s) enabled: 12 cores, 2 chips, 6 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core

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Software

Operating System: Windows 7 Professional (64-bit)
 Compiler: Intel C++ Compiler Professional for Intel 64, Version 11.1
 Build 20091130 Package ID: w_cproc_p_11.1.054
 Intel Visual Fortran Compiler Professional for Intel 64, Version 11.1
 Build 20091130 Package ID: w_cprof_p_11.1.054
 Microsoft Visual Studio 2008 SP1
 Auto Parallel: No
 File System: NTFS

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L3 Cache: 12 MB I+D on chip per chip
 Other Cache: None
 Memory: 48 GB (12x4 GB PC3-10600R)
 Disk Subsystem: 1 x 300 GB SATA 10000 RPM
 Other Hardware: None

System State: Default
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 8.1 for x64

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	24	1753	187	<u>1704</u>	<u>192</u>	1667	197	24	1705	192	1745	187	<u>1743</u>	<u>187</u>
416.gamess	24	1356	346	<u>1355</u>	<u>348</u>	1352	348	24	1358	346	<u>1355</u>	<u>348</u>	1354	348
433.milc	24	1093	202	1054	209	<u>1054</u>	<u>209</u>	24	1093	202	1054	209	<u>1054</u>	<u>209</u>
434.zeusmp	24	767	286	750	290	<u>754</u>	<u>290</u>	24	801	274	<u>798</u>	<u>274</u>	790	276
435.gromacs	24	529	324	531	322	<u>530</u>	<u>324</u>	24	541	317	540	317	<u>540</u>	<u>317</u>
436.cactusADM	24	949	302	945	305	<u>945</u>	<u>302</u>	24	949	302	945	305	<u>945</u>	<u>302</u>
437.leslie3d	24	1813	125	1746	130	<u>1769</u>	<u>127</u>	24	1813	125	1746	130	<u>1769</u>	<u>127</u>
444.namd	24	<u>619</u>	<u>310</u>	617	312	623	310	24	<u>611</u>	<u>314</u>	611	314	610	317
447.dealII	24	1086	252	1122	245	<u>1102</u>	<u>250</u>	24	1107	247	1070	257	<u>1079</u>	<u>254</u>
450.soplex	24	<u>1328</u>	<u>151</u>	1333	151	1326	151	24	<u>1327</u>	<u>151</u>	1330	151	1327	151
453.povray	24	289	442	291	439	<u>290</u>	<u>442</u>	24	242	528	240	530	<u>242</u>	<u>528</u>
454.calculix	24	545	362	540	367	<u>540</u>	<u>367</u>	24	<u>531</u>	<u>372</u>	536	370	530	374
459.GemsFDTD	24	2053	125	<u>2015</u>	<u>127</u>	1993	127	24	2053	125	<u>2015</u>	<u>127</u>	1993	127
465.tonto	24	884	266	<u>887</u>	<u>266</u>	902	262	24	828	286	845	278	<u>842</u>	<u>281</u>
470.lbm	24	<u>2498</u>	<u>132</u>	2511	132	2491	132	24	<u>2497</u>	<u>132</u>	2506	132	2491	132
481.wrf	24	1171	228	1149	233	<u>1150</u>	<u>233</u>	24	1171	228	1149	233	<u>1150</u>	<u>233</u>
482.sphinx3	24	2209	211	<u>2223</u>	<u>211</u>	2257	206	24	<u>2223</u>	<u>211</u>	2239	209	2213	211

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

Platform Notes

BIOS Settings

Memory Node Interleaving: NUMA

Hyper-Threading: ENABLE

General Notes

Binaries were built on Windows Vista Business (64-bit)



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Base Compiler Invocation

C benchmarks:

icl -Qvc9 -Qstd=c99

C++ benchmarks:

icl -Qvc9

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -Qstd=c99 ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_P64 /assume:underscore
 416.gamess: -DSPEC_CPU_P64
 433.milc: -DSPEC_CPU_P64
 434.zeusmp: -DSPEC_CPU_P64
 435.gromacs: -DSPEC_CPU_P64
 436.cactusADM: -DSPEC_CPU_P64 -Qlowercase /assume:underscore
 437.leslie3d: -DSPEC_CPU_P64
 444.namd: -DSPEC_CPU_P64 /TP
 447.dealII: -DSPEC_CPU_P64 -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
 450.soplex: -DSPEC_CPU_P64
 453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
 454.calculix: -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER -Qlowercase
 459.GemsFDTD: -DSPEC_CPU_P64
 465.tonto: -DSPEC_CPU_P64
 470.lbm: -DSPEC_CPU_P64
 481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
 482.sphinx3: -DSPEC_CPU_P64

Base Optimization Flags

C benchmarks:

-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

C++ benchmarks:

-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx_features /F512000000 shlw64mt.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

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Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000

Peak Compiler Invocation

C benchmarks:

icl -Qvc9 -Qstd=c99

C++ benchmarks:

icl -Qvc9

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -Qstd=c99 ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

482.sphinx3: -QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qunroll2
/F512000000

C++ benchmarks:

444.namd: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Oa /F512000000
shlw64mt.lib -link /FORCE:MULTIPLE

447.dealII: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2
-Qansi-alias -Qscalar-rep- /F512000000 shlw64mt.lib
-link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

450.soplex: -Qprof_gen(pass 1) -QxSSE4.2 -Qauto-ilp32
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- /F512000000
shlw64mt.lib -link /FORCE:MULTIPLE

453.povray: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4
-Qansi-alias /F512000000 shlw64mt.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div-
-Qopt-prefetch /F1000000000

416.gamess: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0
-Qansi-alias -Qscalar-rep- /F1000000000

434.zeusmp: -Qprof_gen(pass 1) -QxSSE4.2 -Qauto-ilp32
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- /F1000000000

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto
/F1000000000

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000

436.cactusADM: basepeak = yes

454.calculix: -QxSSE4.2 -Qauto-ilp32 -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/dell.flags.ic11.0.win.20100330.html>

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

<http://www.spec.org/cpu2006/flags/dell.flags.ic11.0.win.20100330.xml>



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