



SPEC® CFP2006 Result

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Dell Inc.

DELL Precision T7600 (Intel Xeon E5-2687W,
3.10GHz)

SPECfp_rate2006 = 459

SPECfp_rate_base2006 = 439

CPU2006 license: 55

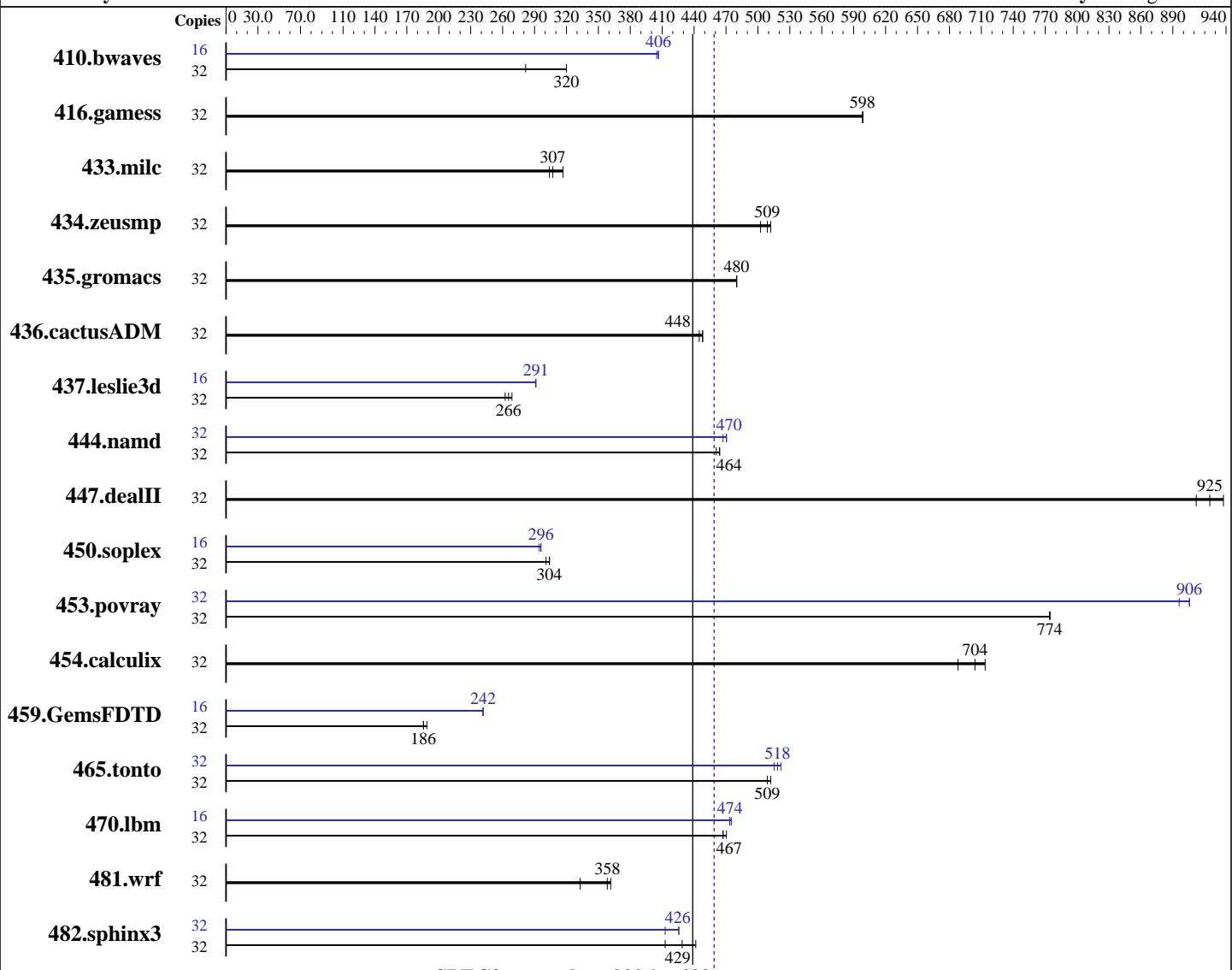
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2013

Hardware Availability: Aug-2012

Software Availability: Aug-2011



Hardware

CPU Name: Intel Xeon E5-2687W
CPU Characteristics: Intel Turbo Boost Technology up to 3.80 GHz
CPU MHz: 3100
FPU: Integrated
CPU(s) enabled: 16 cores, 2 chips, 8 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

Software

Operating System: Windows 7 Professional (64-bit)
Compiler: C/C++: Version 12.1.0.233 of Intel C++ Studio XE for Windows
Fortran: Version 12.1.0.233 of Intel Visual Fortran Compiler for Intel64
C/C++: Version 2010 of Microsoft Visual Studio
Auto Parallel: No
File System: NTFS
System State: Default

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L3 Cache: 20 MB I+D on chip per chip
 Other Cache: None
 Memory: 64 GB (8 x 8 GB 2Rx4 PC3-12800R-9, ECC)
 Disk Subsystem: 1 x 250 GB SATAIII 7200 RPM
 Other Hardware: None

Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 10.0

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	32	1546	282	<u>1357</u>	320	1356	320	16	<u>535</u>	406	535	406	<u>537</u>	405
416.gamess	32	1047	598	1046	598	1047	598	32	<u>1047</u>	598	1046	598	<u>1047</u>	598
433.milc	32	964	304	931	317	<u>956</u>	307	32	964	304	931	317	<u>956</u>	307
434.zeusmp	32	569	512	<u>573</u>	509	581	502	32	569	512	<u>573</u>	509	<u>581</u>	502
435.gromacs	32	478	480	477	480	478	480	32	<u>478</u>	480	477	480	478	480
436.cactusADM	32	858	445	852	448	<u>856</u>	448	32	858	445	852	448	<u>856</u>	448
437.leslie3d	32	1122	269	<u>1136</u>	266	1140	262	16	518	291	<u>518</u>	291	518	291
444.namd	32	<u>555</u>	464	558	461	552	464	32	544	470	<u>546</u>	470	550	467
447.dealII	32	401	912	<u>396</u>	925	390	938	32	401	912	<u>396</u>	925	390	938
450.soplex	32	883	301	<u>882</u>	304	881	304	16	<u>452</u>	296	452	296	<u>452</u>	294
453.povray	32	220	774	<u>220</u>	774	220	774	32	188	906	<u>188</u>	906	190	896
454.calculix	32	<u>375</u>	704	383	688	370	714	32	<u>375</u>	704	383	688	<u>370</u>	714
459.GemsFDTD	32	<u>1820</u>	186	1838	186	1803	189	16	<u>701</u>	242	701	242	<u>701</u>	242
465.tonto	32	615	512	620	509	<u>619</u>	509	32	612	515	<u>608</u>	518	604	522
470.lbm	32	939	467	<u>938</u>	467	937	470	16	465	474	463	475	<u>464</u>	474
481.wrf	32	<u>1000</u>	358	1074	333	989	362	32	<u>1000</u>	358	1074	333	<u>989</u>	362
482.sphinx3	32	1410	442	<u>1455</u>	429	1509	413	32	<u>1506</u>	413	1461	426	<u>1467</u>	426

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.

Platform Notes

```
Sysinfo program C:\cpu2006.v1.2/Docs/sysinfo
$Rev: 6775 $ $Date:: 2011-08-16 #\$ \8787f7622badcf24e01c368b1db4377c
running on Spec-PC Sat Jan 19 17:29:19 2013
```

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:
<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

Trying 'systeminfo'
 OS Name : Microsoft Windows 7 Professional
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Platform Notes (Continued)

OS Version : 6.1.7601 Service Pack 1 Build 7601
System Manufacturer: Dell Inc.
System Model : Precision T7600
Processor(s) : 2 Processor(s) Installed.
[01]: Intel64 Family 6 Model 45 Stepping 6 GenuineIntel ~3069 Mhz
[02]: Intel64 Family 6 Model 45 Stepping 6 GenuineIntel ~2294 Mhz
BIOS Version : Dell Inc. A05, 11/8/2012
Total Physical Memory: 65,462 MB

Trying 'wmic cpu get /value'
DeviceID : CPU0
L2CacheSize : 2048
L3CacheSize : 4096
MaxClockSpeed : 3101
Name : Intel(R) Xeon(R) CPU E5-2687W 0 @ 3.10GHz
NumberOfCores : 8
NumberOfLogicalProcessors: 16
DeviceID : CPU1
L2CacheSize : 2048
L3CacheSize : 4096
MaxClockSpeed : 3101
Name : Intel(R) Xeon(R) CPU E5-2687W 0 @ 3.10GHz
NumberOfCores : 8
NumberOfLogicalProcessors: 16

(End of data from sysinfo program)

General Notes

Binaries were built on Windows 7 Professional (64-bit)

Submitted_by: <Alex_Shows@DELL.com>
Submitted: Mon Feb 11 17:38:59 EST 2013
Submission: cpu2006-20130211-25515.sub

Base Compiler Invocation

C benchmarks:

 icl -Qvc10 -Qstd=c99

C++ benchmarks:

 icl -Qvc10

Fortran benchmarks:

 ifort

Benchmarks using both Fortran and C:

 icl -Qvc10 -Qstd=c99 ifort



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Base Portability Flags

```
410.bwaves: -DSPEC_CPU_P64 -names:lowercase
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 -names:lowercase /assume:underscore
    437.leslie3d: -DSPEC_CPU_P64
        444.namd: -DSPEC_CPU_P64 /TP
        447.dealIII: -DSPEC_CPU_P64 -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
    450.soplex: -DSPEC_CPU_P64
    453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_NEED_INvhyp -DNEED_INvhyp
    454.calculix: -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER -names:lowercase
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:

-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qauto-ilp32 /F512000000

C++ benchmarks:

```
-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qcxx-features  
-Qauto-ilp32 /F512000000 shlw64m.lib -link /FORCE:MULTIPLE
```

Fortran benchmarks:

-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias /F1000000000

Benchmarks using both Fortran and C:

-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qauto-ilp32 /F10000000000

Peak Compiler Invocation

C benchmarks:

```
icl -Qvc10 -Qstd=c99
```

C++ benchmarks:

icl -Qvc10

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

```
icl -Qvc10 -Qstd=c99 ifort
```



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Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: -QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qauto-ilp32
/F512000000

482.sphinx3: -QxAVX -Qipo -O3 -Qprec-div- -Qunroll12 -Qansi-alias
-Qauto-ilp32 /F512000000

C++ benchmarks:

444.namd: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
-O3 -Qprec-div- -Oa -Qauto-ilp32 /F512000000 shlw64m.lib
-link /FORCE:MULTIPLE

447.dealII: basepeak = yes

450.soplex: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
-O3 -Qauto-ilp32 /F512000000 shlw64m.lib
-link /FORCE:MULTIPLE

453.povray: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
-O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32 /F512000000
shlw64m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias /F1000000000

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: Same as 410.bwaves

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

Benchmarks using both Fortran and C:

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Peak Optimization Flags (Continued)

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Dell-ic12.1-Windows.html>

<http://www.spec.org/cpu2006/flags/Dell-platform-Precision.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Dell-ic12.1-Windows.xml>

<http://www.spec.org/cpu2006/flags/Dell-platform-Precision.xml>

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

Tested with SPEC CPU2006 v1.2.

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