

SPEC® CFP2006 Result

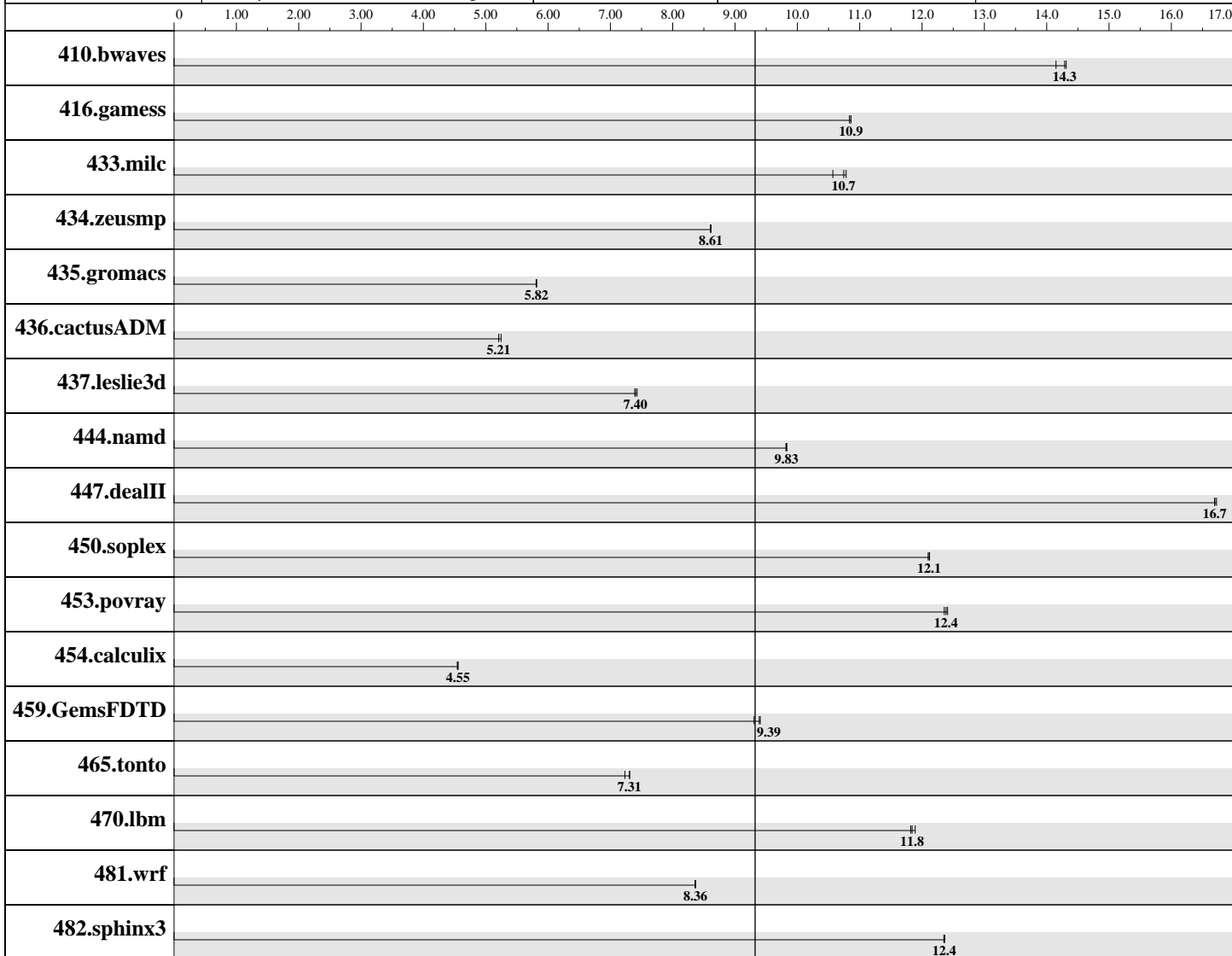
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Sti Tecnologias de la Informacion
Intel Core 2 Duo 6300

SPECfp®2006 = Not Run

SPECfp_base2006 = 9.32

CPU2006 license #: 2433 | Test sponsor: DPT Comp.Sciences, Univ.Valladolid | Test date: Nov-2007 | Hardware Availability: Oct-2007 | Software Availability: Oct-2007
Tested by: Sergio Aldea



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Hardware

CPU Name: x86_64 Intel Core 2 CPU E6300
 CPU Characteristics: 1.86 GHz, 1066 MHz bus
 CPU MHz: 1865
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per core
 L3 Cache: None
 Other Cache: None

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Software

Operating System: Mandriva Linux release 2007.1 (Official) for i586
 Compiler: gcc , g++ & gfortran 4.1.2 20070302 (prerelease)
 Auto Parallel: No
 File System: ext3
 System State: runlevel 5
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: None

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Hardware (Continued)

Memory: 3 GB (2x512MB + 2x1GB DDR2 667MHz)
Disk Subsystem: Seagate St3250820as 250GB SATA II
(7200 rpm, 8MB Cache, ATA300)
Other Hardware: --

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	960	14.1	<u>951</u>	<u>14.3</u>	950	14.3						
416.gamess	1810	10.8	1800	10.9	<u>1800</u>	<u>10.9</u>						
433.milc	869	10.6	<u>854</u>	<u>10.7</u>	851	10.8						
434.zeusmp	1060	8.61	1060	8.60	<u>1060</u>	<u>8.61</u>						
435.gromacs	1230	5.81	1230	5.82	<u>1230</u>	<u>5.82</u>						
436.cactusADM	2290	5.21	2280	5.25	<u>2290</u>	<u>5.21</u>						
437.leslie3d	<u>1270</u>	<u>7.40</u>	1270	7.39	1270	7.43						
444.namd	<u>816</u>	<u>9.83</u>	816	9.83	817	9.82						
447.dealII	685	16.7	684	16.7	<u>685</u>	<u>16.7</u>						
450.soplex	<u>688</u>	<u>12.1</u>	689	12.1	688	12.1						
453.povray	429	12.4	<u>430</u>	<u>12.4</u>	431	12.4						
454.calculix	1820	4.54	<u>1810</u>	<u>4.55</u>	1810	4.56						
459.GemsFDTD	<u>1130</u>	<u>9.39</u>	1140	9.30	1130	9.40						
465.tonto	1360	7.23	<u>1350</u>	<u>7.31</u>	1350	7.31						
470.lbm	1160	11.8	1160	11.9	<u>1160</u>	<u>11.8</u>						
481.wrf	1340	8.36	<u>1340</u>	<u>8.36</u>	1330	8.37						
482.sphinx3	1580	12.4	<u>1580</u>	<u>12.4</u>	1580	12.4						

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

General Notes

PORTABILITY=-DSPEC_CPU_LP64 is applied to all benchmarks in base.
C base flags: -O3 -funroll-loops -fno-inline-functions -ftree-vectorize
C++ base flags: -O3 -funroll-loops -fno-inline-functions -ftree-vectorize
Fortran base flags: -O3 -funroll-loops -fno-inline-functions -ftree-vectorize
wrf needs wrf_data_header_size=8
to read the unformatted data input file correctly
This is because gcc 4.2 still expects 8 byte
by default (at least with the 20060715 snapshot)

Base Compiler Invocation

C benchmarks:
gcc

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Base Compiler Invocation (Continued)

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Benchmarks using both Fortran and C:

gcc gfortran

Base Portability Flags

C benchmarks:

-DSPEC_CPU_LP64

C++ benchmarks (except as noted below):

-DSPEC_CPU_LP64

453.povray: -DSPEC_CPU_LP64

Fortran benchmarks:

-DSPEC_CPU_LP64

Benchmarks using both Fortran and C (except as noted below):

-DSPEC_CPU_LP64

436.cactusADM: -DSPEC_CPU_LP64

481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX -DSPEC_CPU_CASE_FLAG

Base Optimization Flags

C benchmarks:

-O3 -funroll-loops -fno-inline-functions -ftree-vectorize

C++ benchmarks:

-O3 -funroll-loops -fno-inline-functions -ftree-vectorize

Fortran benchmarks:

-O3 -funroll-loops -fno-inline-functions -ftree-vectorize

Benchmarks using both Fortran and C:

-O3 -funroll-loops -fno-inline-functions -ftree-vectorize

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Base Other Flags

C benchmarks:

No flags used

C++ benchmarks:

No flags used

Fortran benchmarks:

No flags used

Benchmarks using both Fortran and C:

No flags used

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