



SPEC[®] CFP2006 Result

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Dell Inc.

(Test Sponsor: The Portland Group)

PowerEdge 1950

SPECfp[®]2006 = 15.8

SPECfp_base2006 = 15.8

CPU2006 license: 94

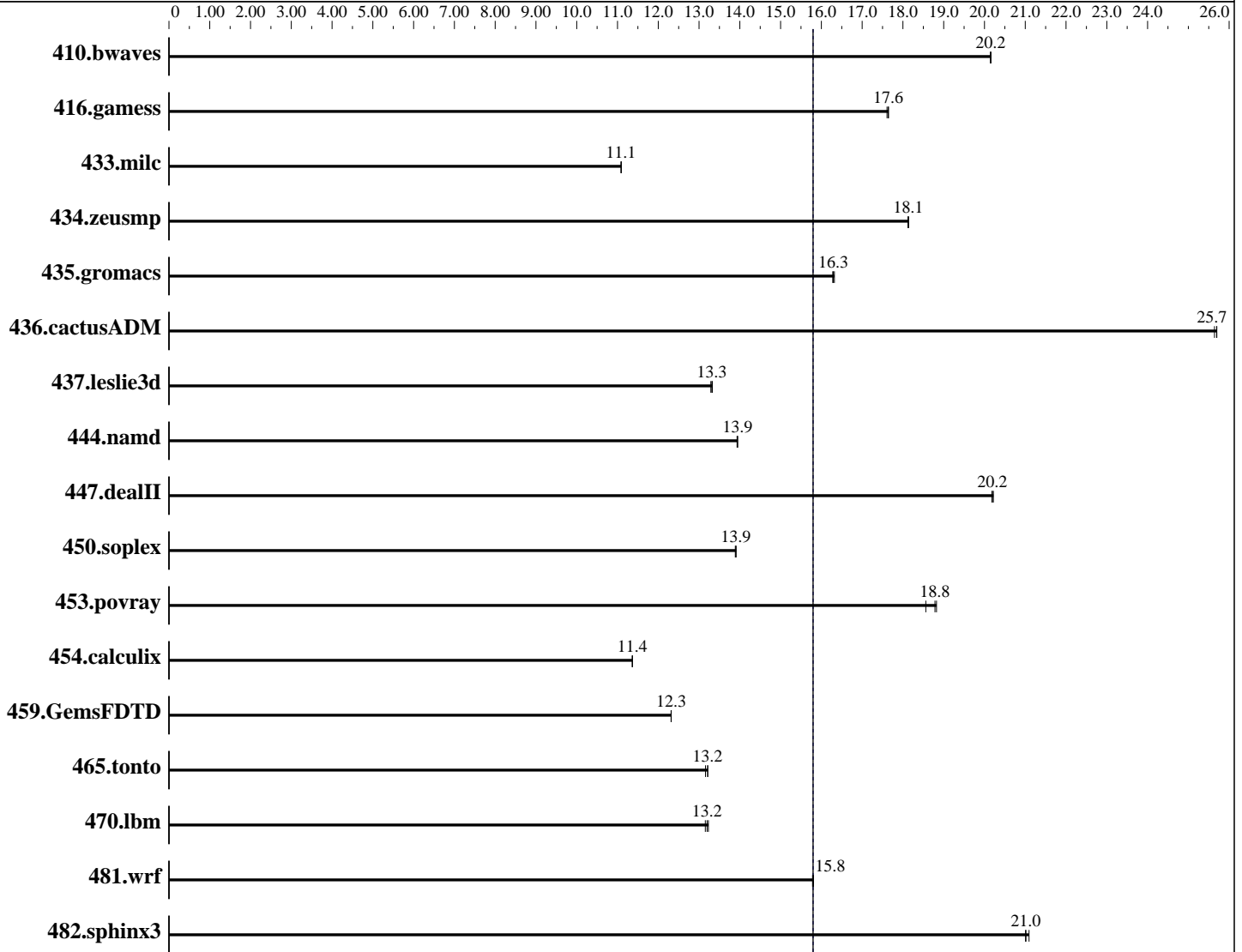
Test sponsor: The Portland Group

Tested by: The Portland Group

Test date: Sep-2006

Hardware Availability: Jul-2006

Software Availability: Sep-2006



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Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 1333 MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 to 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip

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Software

Operating System: SLES 10 (Kernel 2.6.16.21-0.8-smp)
 Compiler: The Portland Group (PGI)
 PGI pgf90 6.2-3 Fortran Compiler
 PGI pgcc 6.2-3 C Compiler
 PGI pgCC 6.2-3 C++ Compiler
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Multi-user

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L3 Cache: None
Other Cache: None
Memory: 4 GB (4x 1GB, Samsung M395T2953CZ4 DDR2 FBD 667 CL5-5-5)
Disk Subsystem: Hitachi Deskstar SATA, 164 GB, 7200 RPM
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: 64-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	674	20.2	674	20.2	675	20.1	674	20.2	674	20.2	675	20.1
416.gamess	1110	17.6	1112	17.6	1110	17.6	1110	17.6	1112	17.6	1110	17.6
433.milc	828	11.1	828	11.1	828	11.1	828	11.1	828	11.1	828	11.1
434.zeusmp	502	18.1	502	18.1	502	18.1	502	18.1	502	18.1	502	18.1
435.gromacs	438	16.3	438	16.3	439	16.3	438	16.3	438	16.3	439	16.3
436.cactusADM	465	25.7	465	25.7	466	25.6	465	25.7	465	25.7	466	25.6
437.leslie3d	707	13.3	706	13.3	705	13.3	707	13.3	706	13.3	705	13.3
444.namd	575	13.9	576	13.9	575	13.9	575	13.9	576	13.9	575	13.9
447.dealII	567	20.2	566	20.2	566	20.2	567	20.2	566	20.2	566	20.2
450.soplex	600	13.9	600	13.9	600	13.9	600	13.9	600	13.9	600	13.9
453.povray	287	18.6	283	18.8	283	18.8	287	18.6	283	18.8	283	18.8
454.calculix	726	11.4	726	11.4	726	11.4	726	11.4	726	11.4	726	11.4
459.GemsFDTD	861	12.3	861	12.3	862	12.3	861	12.3	861	12.3	862	12.3
465.tonto	748	13.2	745	13.2	745	13.2	748	13.2	745	13.2	745	13.2
470.lbm	1039	13.2	1041	13.2	1045	13.2	1039	13.2	1041	13.2	1045	13.2
481.wrf	707	15.8	707	15.8	708	15.8	707	15.8	707	15.8	708	15.8
482.sphinx3	924	21.1	927	21.0	928	21.0	924	21.1	927	21.0	928	21.0

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

General Notes

Environment stack size set to 'unlimited'
For parallel runs (those compiled with "-Mconcur")
the following environment variables were set:

```
NCPUS = 2
MP_BIND = yes
MP_BLIST = 1,0
```

NCPUS=n sets the number of threads to use to "n".
MP_BIND=yes instructs the runtime to bind a thread to a core.
MP_BLIST defines the thread-core relationship.
The 4 1GB memory modules populated the first DIMM socket
of each channel (0-3).



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Base Compiler Invocation

C benchmarks:

pgcc

C++ benchmarks:

pgCC

Fortran benchmarks:

pgf90

Benchmarks using both Fortran and C:

pgcc pgf90

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 -Mnomain
 436.cactusADM: -DSPEC_CPU_LP64 -Mnomain
 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 -Mnomain
 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:

-fastsse -Mconcur -Mipa=fast -Mipa=inline -Mfprelaxed=rsqrt
-Msmartalloc -Msignextend -tp core2-64

C++ benchmarks:

-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed=rsqrt -Msmartalloc
-tp core2-64

Fortran benchmarks:

-fastsse -Mconcur -Mipa=fast -Mipa=inline -Mfprelaxed=rsqrt
-Msmartalloc -tp core2-64

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Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

-fastsse -Mconcur -Mipa=fast -Mipa=inline -Mfprelaxed=rsqrt
-Msmartalloc -Msignextend -tp core2-64

Base Other Flags

C benchmarks:

-w

C++ benchmarks:

-w

Fortran benchmarks:

-w

Benchmarks using both Fortran and C:

-w

Peak Compiler Invocation

C benchmarks:

pgcc

C++ benchmarks:

pgCC

Fortran benchmarks:

pgf90

Benchmarks using both Fortran and C:

pgcc pgf90

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

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Peak Optimization Flags (Continued)

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: basepeak = yes

450.soplex: basepeak = yes

453.povray: basepeak = yes

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

Peak Other Flags

C benchmarks:

-w

C++ benchmarks:

-w

Fortran benchmarks:

-w

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Peak Other Flags (Continued)

Benchmarks using both Fortran and C:

-w

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

http://www.spec.org/cpu2006/flags/pgi62_flags.20090715.html

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

http://www.spec.org/cpu2006/flags/pgi62_flags.20090715.xml

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

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