



SPEC[®] CFP2006 Result

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Hewlett-Packard Company

SPECfp[®]2006 = --

ProLiant DL380 G4 (3.8GHz, Intel Xeon Processor)

SPECfp_base2006 = 11.7

CPU2006 license: 3

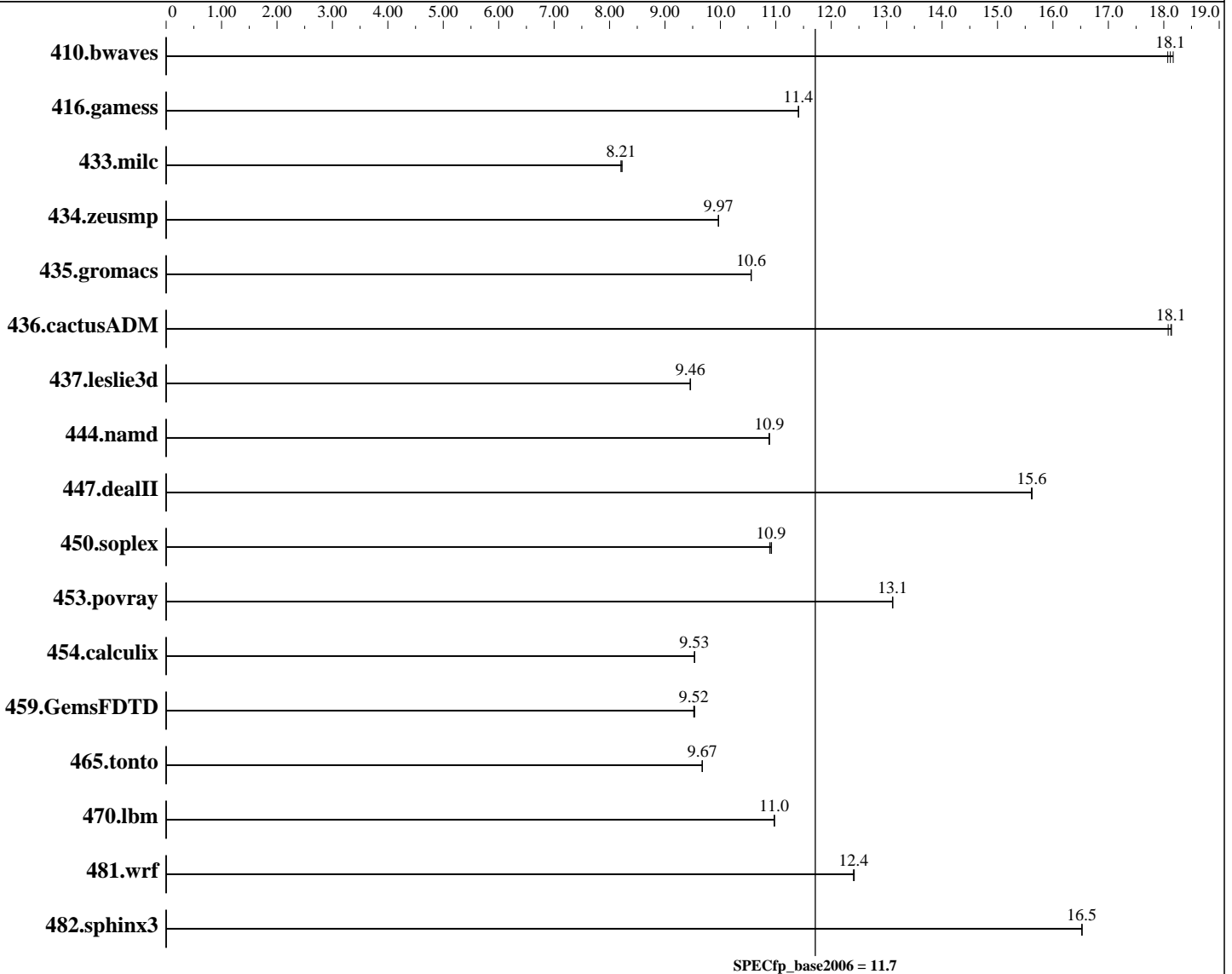
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Apr-2006

Hardware Availability: Sep-2005

Software Availability: May-2006



Hardware

CPU Name: Intel Xeon
 CPU Characteristics: 3.8GHz, 2MB L2, 800MHz bus
 CPU MHz: 3800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip, 2 threads/core
 CPU(s) orderable: 1,2 chips
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per chip
 Secondary Cache: 2 MB I+D on chip per chip

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Software

Operating System: Windows Server 2003 Ent, SP1
 Compiler: Intel C++ Compiler 9.1 for 32-bit apps, Build 20060323Z Package ID: W_CC_P_9.1.020
 Intel Visual Fortran Compiler 9.1 for 32-bit apps, Build 20060323Z Package ID: W_FC_P_9.1.020
 Microsoft Visual Studio .NET 2003 (for libraries)
 MicroQuill SmartHeap Library 7.4
 Auto Parallel: No
 File System: NTFS
 System State: Default

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L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB PC2-3200)
 Disk Subsystem: 146GB 10k U320 SCSI
 Other Hardware: None

Base Pointers: 32-bit
 Peak Pointers: Not Applicable
 Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	748	18.2	752	18.1	750	18.1						
416.gamess	1716	11.4	1716	11.4	1716	11.4						
433.milc	1116	8.23	1118	8.21	1118	8.21						
434.zeusmp	913	9.97	914	9.96	913	9.97						
435.gromacs	677	10.6	676	10.6	677	10.6						
436.cactusADM	659	18.1	661	18.1	659	18.1						
437.leslie3d	993	9.46	994	9.46	994	9.45						
444.namd	737	10.9	737	10.9	737	10.9						
447.dealII	732	15.6	733	15.6	733	15.6						
450.soplex	764	10.9	764	10.9	766	10.9						
453.povray	406	13.1	406	13.1	406	13.1						
454.calculix	865	9.53	866	9.53	865	9.54						
459.GemsFDTD	1113	9.54	1114	9.52	1114	9.52						
465.tonto	1017	9.68	1017	9.67	1018	9.67						
470.lbm	1252	11.0	1252	11.0	1252	11.0						
481.wrf	900	12.4	901	12.4	900	12.4						
482.sphinx3	1180	16.5	1179	16.5	1180	16.5						

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

Base Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort



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Base Portability Flags

```

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

```

Base Optimization Flags

```

C benchmarks:
  -fast /F950000000 shlw32m.lib          -link /FORCE:MULTIPLE

C++ benchmarks:
  -fast -Qcxx_features /F950000000 shlw32m.lib
  -link /FORCE:MULTIPLE

Fortran benchmarks:
  -fast /F950000000          -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
  -fast /F950000000          -link /FORCE:MULTIPLE

```

The flags file that was used to format this result can be browsed at <http://www.spec.org/cpu2006/flags/hp-ic91-flags.20090715.01.html>

You can also download the XML flags source by saving the following link: <http://www.spec.org/cpu2006/flags/hp-ic91-flags.20090715.01.xml>

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

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