SPEC® CFP2006 Result

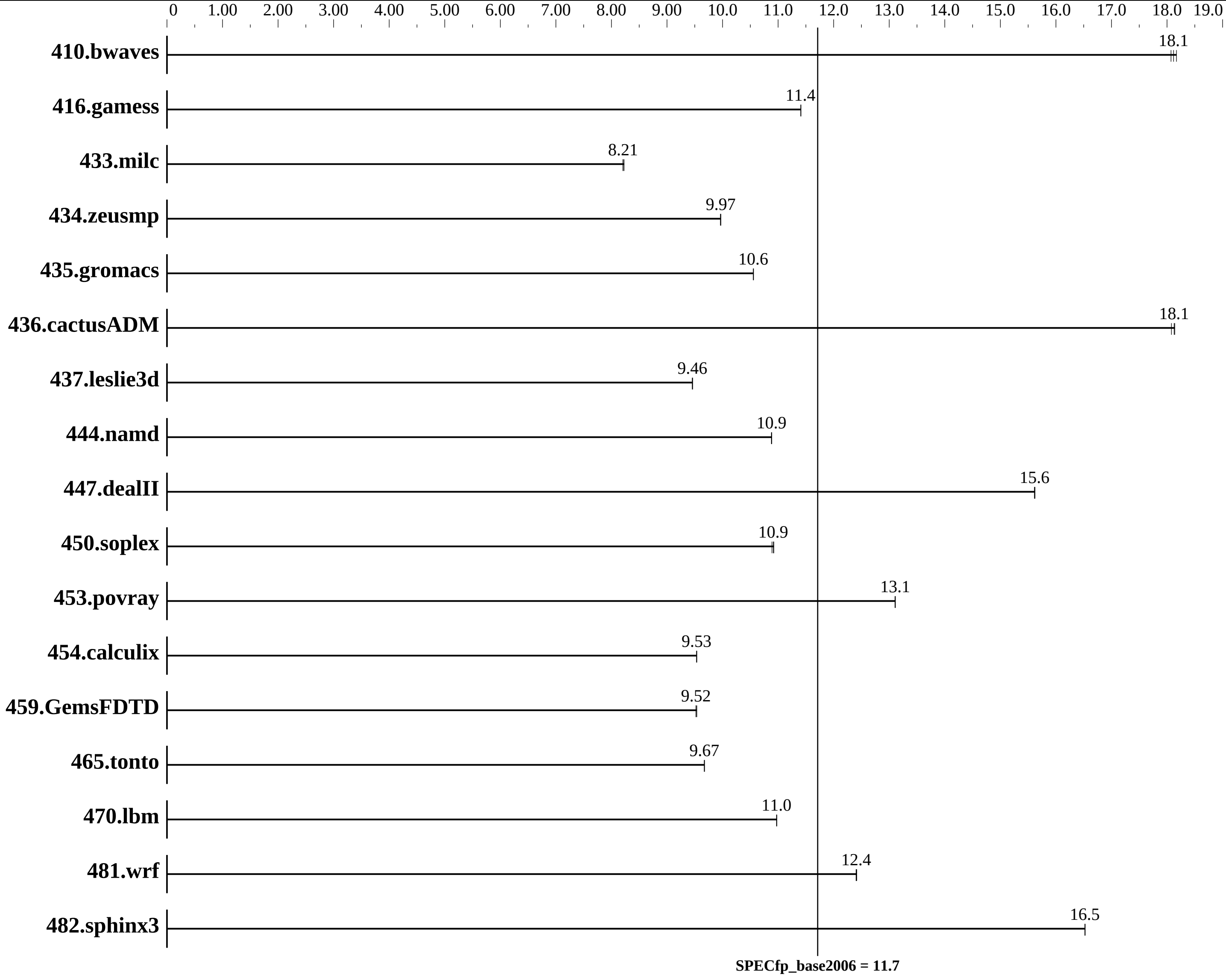
Hewlett-Packard Company

ProLiant DL380 G4 (3.8GHz, Intel Xeon Processor)

SPECfp®2006 = --

SPECfp_base2006 = 11.7

CPU2006 license: 3		**Test date:**	Apr-2006
Test sponsor:	Hewlett-Packard Company	**Hardware Availability:**	Sep-2005
Tested by:	Hewlett-Packard Company	**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

	Base						Peak					
Benchmark	**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.dealII: -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

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

Tested with SPEC CPU2006 v90.
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