Hewlett-Packard Company
ProLiant ML350 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp®_rate2006 = 42.2
SPECfp_rate_base2006 = 41.6

Hardware
CPU Name: Intel Xeon E5320
CPU Characteristics: 1.86 GHz, 2x4 MB L2 shared, 1066MHz system bus
CPU MHz: 1860
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1.2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

Software
Operating System: SuSE Linux Enterprise Server 10 (x86_64) kernel 2.6.16.21-0.8-smp
Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Build 20061101, Package ID: l_cc_c_9.1.045
Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Build 20061101, Package ID: l_fc_c_9.1.040
Auto Parallel: No

Tested by: Hewlett-Packard Company
Test sponsor: Hewlett-Packard Company

CPU2006 license: 3
Test date: Feb-2007
Hardware Availability: Nov-2006
Software Availability: Nov-2006

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(1.86 GHz, Intel Xeon processor E5320)

SPECFp_rate2006 = 42.2
SPECFp_rate_base2006 = 41.6

CPU2006 license: 3
Test sponsor: Hewlett-Packard Company
Tested by: Hewlett-Packard Company
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L3 Cache: None
Other Cache: None
Memory: 8 GB (4x2 GB PC2-5300F CL5)
Disk Subsystem: 2x36 GB 10 K SAS
Other Hardware: None

File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

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</table>

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

Platform Notes

- Power Regulator set to Static High Performance Mode in BIOS.
- Adjacent Sector Prefetch Disabled in BIOS.
- "/usr/bin/taskset" used to bind processes to CPUs.
- "ulimit –s unlimited" set

Base Compiler Invocation

C benchmarks:
  icc

C++ benchmarks:
  icpc

Continued on next page
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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

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 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
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 -nofor_main
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:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Peak Compiler Invocation

C benchmarks:
icc

Continued on next page
SPEC CFP2006 Result

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Peak Compiler Invocation (Continued)

C++ benchmarks:
icpc
Fortran benchmarks:
ifort
Benchmarks using both Fortran and C:
icc ifort

Peak Portability Flags
Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

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

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/hp-ic91-flags.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 v1.0.