



SPEC® CFP2006 Result

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Hewlett-Packard Company

ProLiant DL380 G5
(3.0 GHz, Intel Xeon processor X5365)

SPECfp®_rate2006 = 38.7

SPECfp_rate_base2006 = 36.3

CPU2006 license: 3

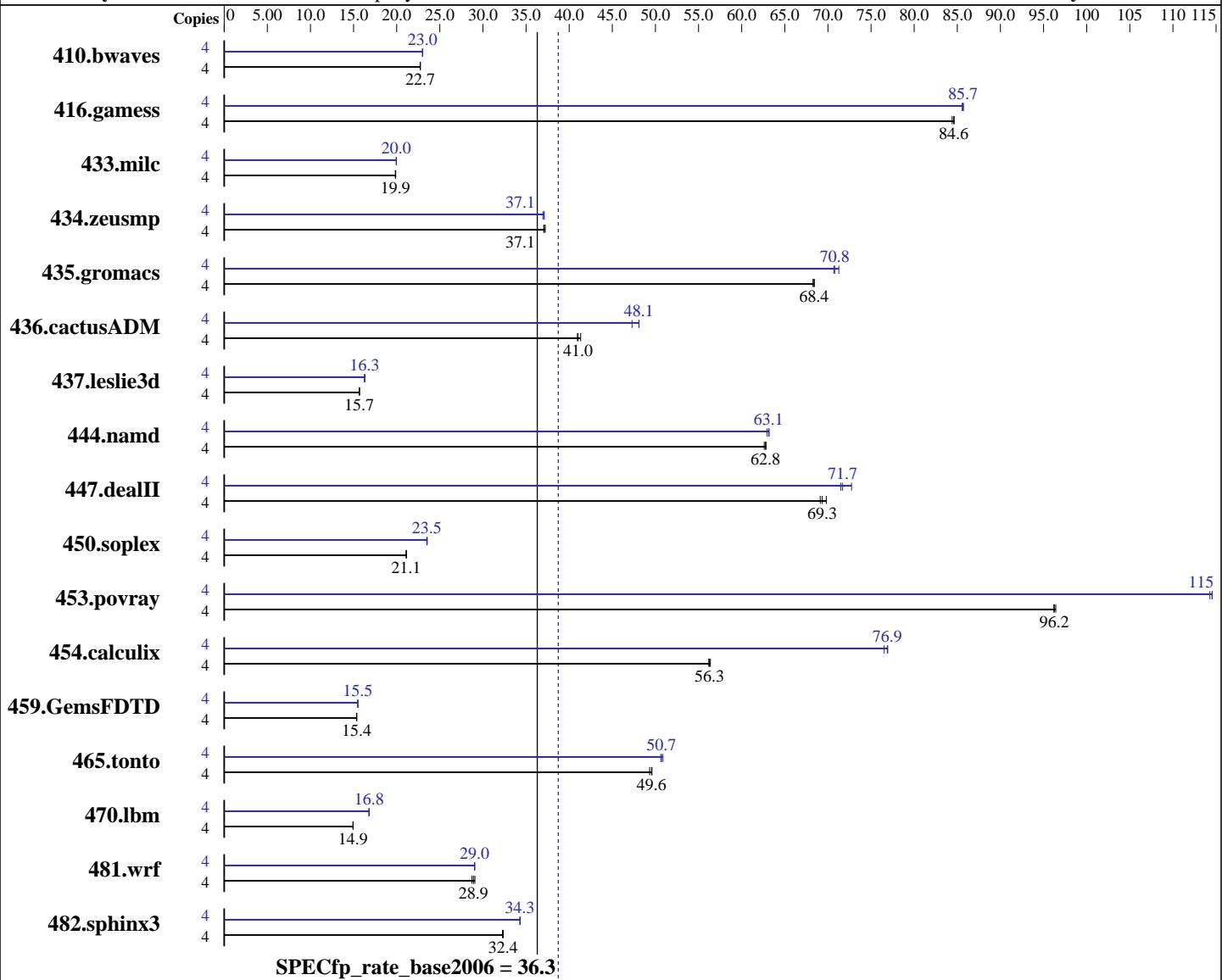
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Aug-2007

Hardware Availability: Sep-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5365
CPU Characteristics: 3.0 GHz, 2x4 MB L2 shared, 1333 MHz system bus
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 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) SP1 kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070725
Auto Parallel: No
File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB PC2-5300F CL5)
Disk Subsystem: 1x72 GB 15 K SAS
Other Hardware: None

Peak Pointers: 32/64-bit
Other Software: binutils-2.17.50

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	2393	22.7	2390	22.7	2391	22.7	4	2363	23.0	2363	23.0	2364	23.0
416.gamess	4	925	84.6	926	84.6	928	84.4	4	914	85.7	915	85.6	914	85.7
433.milc	4	1850	19.9	1846	19.9	1849	19.9	4	1840	20.0	1841	19.9	1839	20.0
434.zeusmp	4	981	37.1	983	37.0	978	37.2	4	981	37.1	982	37.1	985	36.9
435.gromacs	4	417	68.4	418	68.3	418	68.4	4	401	71.3	403	70.8	404	70.7
436.cactusADM	4	1167	41.0	1165	41.0	1157	41.3	4	994	48.1	994	48.1	1011	47.3
437.leslie3d	4	2399	15.7	2403	15.7	2395	15.7	4	2311	16.3	2308	16.3	2307	16.3
444.namd	4	512	62.6	511	62.8	511	62.8	4	510	62.9	508	63.2	508	63.1
447.dealII	4	655	69.8	662	69.1	660	69.3	4	640	71.5	629	72.7	638	71.7
450.soplex	4	1580	21.1	1581	21.1	1579	21.1	4	1417	23.5	1420	23.5	1420	23.5
453.povray	4	221	96.2	221	96.4	221	96.2	4	186	114	186	115	186	115
454.calculix	4	587	56.2	586	56.3	585	56.4	4	429	76.9	431	76.5	429	76.9
459.GemsFDTD	4	2759	15.4	2767	15.3	2765	15.4	4	2738	15.5	2738	15.5	2742	15.5
465.tonto	4	794	49.6	794	49.6	798	49.3	4	777	50.6	776	50.7	774	50.9
470.lbm	4	3678	14.9	3677	14.9	3678	14.9	4	3272	16.8	3272	16.8	3272	16.8
481.wrf	4	1537	29.1	1546	28.9	1555	28.7	4	1539	29.0	1539	29.0	1538	29.0
482.sphinx3	4	2416	32.3	2410	32.4	2409	32.4	4	2274	34.3	2271	34.3	2273	34.3

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
'/usr/bin/taskset' used to bind processes to CPUs

Platform Notes

BIOS configuration:

Power Regulator set to Static High Performance Mode
Adjacent Sector Prefetch Disabled
Hardware Prefetcher Disabled



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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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



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Peak Compiler Invocation

C benchmarks (except as noted below):

```
/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/include
```

433.milc: icc

C++ benchmarks (except as noted below):

icpc

```
450.soplex: /home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/bin/icpc
-L/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/include
```

Fortran benchmarks (except as noted below):

ifort

```
437.leslie3d: /home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/bin/ifort
-L/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/include
```

Benchmarks using both Fortran and C:

icc ifort

Peak 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
    444.namd: -DSPEC_CPU_LP64
    447.dealII: -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
    481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
    -auto-ilp32
```

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Peak Optimization Flags (Continued)

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-scalar-rep- -prefetch -opt-malloc-options=3

482.sphinx3: -fast -unroll12

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-prefetch -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32



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

<http://www.spec.org/cpu2006/flags/HP-Intel-ic10.1-linux-flags.20090714.01.html>

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

<http://www.spec.org/cpu2006/flags/HP-Intel-ic10.1-linux-flags.20090714.01.xml>

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Tested with SPEC CPU2006 v1.0.

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