



CFP2000 Result

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Hewlett-Packard Company

ProLiant DL360 G5 (3.73GHz, Intel Xeon processor 5080)

SPECfp_rate2000 = 24.6

SPECfp_rate_base2000 = 23.5

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jun-2006 Hardware Avail: Jun-2006 Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	44.5	41.7	1	44.5	41.7
171.swim	1	115	31.2	1	109	33.0
172.mgrid	1	98.2	21.3	1	97.6	21.4
173.applu	1	114	21.3	1	96.4	25.3
177.mesa	1	73.4	22.1	1	69.2	23.5
178.galgel	1	84.9	39.6	1	84.9	39.6
179.art	1	42.6	70.8	1	42.6	70.8
183.quake	1	62.0	24.3	1	49.5	30.4
187.facerec	1	111	19.9	1	99.3	22.2
188.amp	1	157	16.2	1	157	16.2
189.lucas	1	115	20.1	1	116	20.0
191.fma3d	1	120	20.3	1	120	20.3
200.sixtrack	1	150	8.50	1	150	8.50
301.apsi	1	189	15.9	1	193	15.6

Hardware

CPU: Intel Xeon processor 5080 (3.73GHz, 2x2MB L2, 1066MHz bus)
 CPU MHz: 3730
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)
 CPU(s) orderable: 1,2 chips
 Parallel: No
 Primary Cache: 12K micro-ops I + 16KBD (on chip) per core
 Secondary Cache: 2048KB(I+D) (on chip) per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8x1024MB PC2-5300F
 Disk Subsystem: 1x36GB 10K SAS
 Other Hardware:

Software

Operating System: RedHat Enterprise Linux 4.0 Advanced Server for AMD/EM64T, Update 3 Kernel 2.6.9-34.EL
 Compiler: Intel C++ Compiler for EM64T-based applications, (Version 9.1 Build 20060323)
 Intel Fortran Compiler for EM64T-based applications, (Version 9.1 Build 20060323)
 PathScale EKOPATH(TM) Compiler Suite, Release 2.4
 File System: ext2
 System State: Multi-user run level 3

Notes/Tuning Information

```
+FDO: PASS1= -prof_gen PASS2=-prof_use (Intel Compiler)
+FDO: PASS1= -fb_create fbdata PASS2=-fb_opt fbdata (PathScale Compiler)
ifort is the Intel Fortran compiler, icc is the Intel C++ compiler; and
pathf95 is PathScale Fortran compiler, pathcc is the PathScale C compiler.
Base tuning for C programs: icc -fast -auto_ilp32 +FDO
Base tuning for FORTRAN programs: ifort -fast +FDO
Portability:
-DSPEC_CPU2000_LP64 applied to all benchmarks
178.galgel: -FI
Peak tuning:
168.wupwise: basepeak=1
171.swim: pathf95 -Ofast -LNO:fusion=2:simd=0 -WOPT:val=0 -march=em64t
172.mgrid: pathf95 -Ofast -CG:load_exe=0 -LNO:blocking=off:prefetch_ahead=5
-OPT:ro=3:unroll_size=256 -WOPT:mem_opnds=on -march=em64t
173.applu: pathf95 -O3 -ipa -CG:load_exe=0
-LNO:fission=1:fusion=2:blocking=off:full_unroll_size=9000
-OPT:IEEE_a=3:ro=3 -TENV:X=3 -march=em64t
```



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Notes/Tuning Information (Continued)

```

177.mesa: pathcc -O2 -ipa -OPT:Ofast -fno-math-errno -CG:local_fwd_sched=on
          -GRA:optimize_boundary=on -march=em64t +FDO
178.galgel: basepeak=1
179.art: basepeak=1
183.quake: icc -fast +FDO ONESTEP=yes -rcd -auto-ilp32
187.facerec: pathf95 -Ofast -IPA:plimit=1500 -LNO:fusion=2
            -OPT:IEEE_NaN_Inf=off:ro=3:unroll_size=0 -march=em64t +FDO
188.ammp: basepeak=1
189.lucas: ifort -fast ONESTEP=yes
191.fma3d: basepeak=1
200.sixtrack: basepeak=1
301.apsi: pathf95 -Ofast -CG:load_exe=0 -LNO:opt=0:prefetch=1 -march=em64t

```

BIOS Configuration Notes

- Power Regulator set to Static High Performance Mode
- Hyper-Threading Technology disabled

Other Configuration Notes

- Single processor kernel used