



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL140 G3 (3.73 GHz, Intel Xeon processor 5080)

SPECfp2000 = **2127**
SPECfp_base2000 = **2039**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	47.7	3353	47.7	3353	
171.swim	3100	133	2336	127	2439	
172.mgrid	1800	104	1723	106	1695	
173.applu	2100	116	1804	103	2036	
177.mesa	1400	71.1	1968	66.5	2106	
178.galgel	2900	79.7	3640	79.7	3640	
179.art	2600	41.2	6316	41.2	6316	
183.quake	1300	68.3	1904	54.5	2386	
187.facerec	1900	87.2	2179	73.6	2583	
188.amp	2200	159	1382	159	1382	
189.lucas	2000	95.1	2103	97.2	2057	
191.fma3d	2100	127	1657	127	1657	
200.sixtrack	1100	151	728	151	728	
301.apsi	2600	193	1345	193	1344	

Hardware

CPU: Intel Xeon processor 5080 (3.73GHz, 2x2MB L2, 1066 MHz system 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: 12 K micro-ops I + 16 KB D on chip per core
Secondary Cache: 2 MB I+D on chip per core
L3 Cache: N/A
Other Cache: N/A
Memory: 8 GB (8 x 1 GB PC2-5300F)
Disk Subsystem: 1 x 36 GB 15 K SAS
Other Hardware:

Software

Operating System: RedHat Enterprise Linux 4.0 Advanced Server for AMD64/EM64T, Update 4 Kernel 2.6.9-42.EL
Compiler: Intel C++ Compiler for EM64T-based applications, (Version 9.1 Build 20060925)
Intel Fortran Compiler for EM64T-based applications, (Version 9.1 Build 20060925)
PathScale EKOPATH(TM) Compiler Suite, Release 2.5
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.ammmp: 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
Hyper-Threading Technology disabled
Other Configuration Notes
Single Processor Kernel used