



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL380 G5 (2.0GHz, Intel Xeon processor 5130)

SPECfp2000 = **2341**
SPECfp_base2000 = **2147**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	46.2	3461	46.2	3461	
171.swim	3100	111	2804	106	2934	
172.mgrid	1800	126	1430	94.2	1911	
173.applu	2100	114	1841	91.2	2303	
177.mesa	1400	66.6	2103	61.0	2297	
178.galgel	2900	61.8	4691	61.8	4691	
179.art	2600	32.9	7894	32.9	7894	
183.quake	1300	62.5	2079	51.1	2545	
187.facerec	1900	84.2	2256	62.0	3065	
188.amp	2200	147	1501	147	1501	
189.lucas	2000	108	1853	107	1869	
191.fma3d	2100	124	1697	124	1697	
200.sixtrack	1100	144	764	144	764	
301.apsi	2600	197	1318	189	1378	

Hardware

CPU: Intel Xeon processor 5130 (2.0GHz, 4MB L2 shared, 1333MHz bus)
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Parallel: No
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16 GB (8x2048 MB PC2-5300F)
 Disk Subsystem: 1x36 GB 10 K SAS
 Other Hardware:

Software

Operating System: RedHat Enterprise Linux 4.0 Advanced Server for AMD64/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: Default

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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SPECfp2000 = 2341
SPECfp_base2000 = 2147

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Notes/Tuning Information (Continued)

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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

Power Regulator set to Static High Performance Mode

Other Configuration Notes

Single processor kernel used