



CFP2000 Result

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

SPECfp_rate2000 = 37.7
SPECfp_rate_base2000 = 36.0

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

				Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio	
150	120	90	60	30	168.wupwise	2	67.7	54.9	2	67.7	54.9
					171.swim	2	254	28.4	2	250	28.8
					172.mgrid	2	166	25.1	2	169	24.7
					173.applu	2	166	29.4	2	135	36.0
					177.mesa	2	71.5	45.4	2	66.2	49.0
					178.galgel	2	83.5	80.6	2	83.5	80.6
					179.art	2	48.0	126	2	48.0	126
					183.quake	2	127	23.8	2	98.6	30.6
					187.facerec	2	106	41.6	2	90.8	48.6
					188.amp	2	169	30.2	2	169	30.2
					189.lucas	2	164	28.4	2	164	28.2
					191.fma3d	2	175	27.8	2	175	27.8
					200.sixtrack	2	151	16.9	2	151	16.9
					301.apsi	2	209	28.9	2	210	28.7

Hardware

CPU: Intel Xeon processor 5080 (3.73GHz, 2x2MB L2, 1066 MHz system bus)
CPU MHz: 3730
FPU: Integrated
CPU(s) enabled: 2 cores, 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.ELsmp
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)

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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.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
Hyper-Threading Technology disabled

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