



CFP2000 Result

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Hewlett-Packard Company
ProLiant ML150 G3 (3.73 GHz, Intel Xeon processor 5080)

SPECfp_rate2000 = **58.2**
SPECfp_rate_base2000 = **55.1**

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

					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
150	120	90	60	30	168.wupwise	4	80.4	92.3	4	80.4	92.3
					171.swim	4	380	37.9	4	377	38.2
					172.mgrid	4	236	35.4	4	232	36.0
					173.applu	4	291	33.4	4	196	49.8
					177.mesa	4	74.6	87.0	4	70.1	92.7
					178.galgel	4	132	102	4	132	102
					179.art	4	86.2	140	4	86.2	140
					183.quake	4	151	39.9	4	118	51.3
					187.facerec	4	137	64.3	4	128	68.9
					188.amp	4	170	60.0	4	170	60.0
					189.lucas	4	256	36.3	4	254	36.5
					191.fma3d	4	213	45.7	4	213	45.7
					200.sixtrack	4	152	33.5	4	152	33.5
					301.apsi	4	225	53.6	4	231	52.2

Hardware

CPU: Intel Xeon processor 5080 (3.73 GHz, 2x2 MB L2, 1066 MHz bus)
CPU MHz: 3730
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 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 (4x2048 MB PC2-5300F)
Disk Subsystem: 1x36 GB 15 K SAS
Other Hardware:

Software

Operating System: RedHat Enterprise Linux 4.0 Advanced Server for AMD64/EM64T, Update 3 Kernel 2.6.9-34.ELsmp
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.equake: 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.amm: 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