



CFP2000 Result

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Hewlett-Packard Company

ProLiant ML150 G3 (3.00 GHz, Intel Xeon processor 5050)

SPECfp_rate2000 = 27.9

SPECfp_rate_base2000 = 26.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	86.5	42.9	2	86.5	42.9
171.swim	2	344	20.9	2	342	21.0
172.mgrid	2	219	19.1	2	218	19.1
173.applu	2	234	20.8	2	173	28.1
177.mesa	2	92.5	35.1	2	86.8	37.4
178.galgel	2	134	50.1	2	134	50.1
179.art	2	78.5	76.8	2	78.5	76.8
183.quake	2	162	18.6	2	126	24.0
187.facerec	2	155	28.4	2	143	30.8
188.amp	2	209	24.5	2	209	24.5
189.lucas	2	232	20.0	2	232	20.0
191.fma3d	2	228	21.3	2	228	21.3
200.sixtrack	2	188	13.6	2	188	13.6
301.apsi	2	261	23.1	2	257	23.5

Hardware

CPU: Intel Xeon processor 5050 (3.00 GHz, 2x2 MB L2, 667 MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1,2
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.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