



CFP2000 Result

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Hewlett-Packard Company
ProLiant BL460c (2.66GHz, Intel Xeon processor 5150)

SPECfp_rate2000 = 47.4
SPECfp_rate_base2000 = 44.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	53.3	69.6	2	53.3	69.6
171.swim	2	209	34.4	2	206	34.9
172.mgrid	2	136	30.7	2	134	31.3
173.applu	2	147	33.3	2	110	44.2
177.mesa	2	52.9	61.4	2	47.5	68.3
178.galgel	2	61.3	110	2	61.3	110
179.art	2	47.8	126	2	47.8	126
183.equake	2	94.3	32.0	2	75.2	40.1
187.facerec	2	81.3	54.2	2	72.7	60.6
188.amp	2	124	41.2	2	124	41.2
189.lucas	2	142	32.6	2	141	33.0
191.fma3d	2	144	33.8	2	144	33.8
200.sixtrack	2	109	23.3	2	109	23.3
301.apsi	2	182	33.1	2	175	34.5

Hardware

CPU: Intel Xeon processor 5150 (2.66 GHz, 4 MB L2 shared, 1333 MHz bus)
CPU MHz: 2660
FPU: Integrated
CPU(s) enabled: 2 cores, 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: 8 GB (8x1 GB PC2-5300F)
Disk Subsystem: 2x72 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.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)

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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.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.ammpp:     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

```