CFP2000 Result

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Hewlett-Packard Company

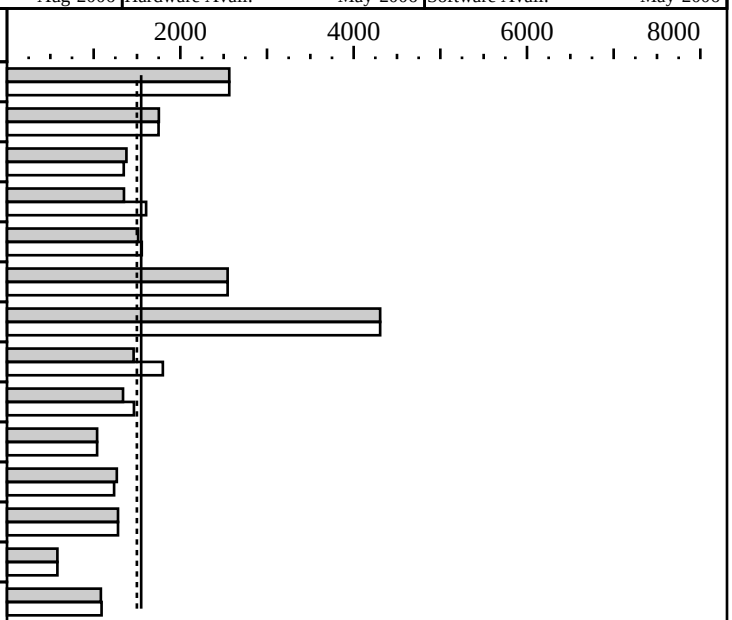
ProLiant ML150 G3 (3.00 GHz, Intel Xeon processor 5050)

SPECfp2000 = 1548

SPECfp_base2000 = 1499

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	62.4	2565	62.4	2565
171.swim	3100	177	1752	177	1749
172.mgrid	1800	131	1378	134	1347
173.applu	2100	156	1350	131	1605
177.mesa	1400	92.5	1513	90.0	1555
178.galgel	2900	114	2546	114	2546
179.art	2600	60.4	4306	60.4	4306
183.equake	1300	89.0	1461	72.3	1798
187.facerec	1900	142	1339	130	1465
188.ammp	2200	212	1040	212	1040
189.lucas	2000	158	1267	162	1236
191.fma3d	2100	164	1281	164	1281
200.sixtrack	1100	189	582	189	582
301.apsi	2600	240	1083	238	1091



Hardware

CPU:	Intel Xeon processor 5050 (3.00 GHz, 2x2 MB L2, 667 MHz bus)
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	1 core, 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.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:	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
Other Configuration Notes
 Single processor kernel used
```