CFP2000 Result

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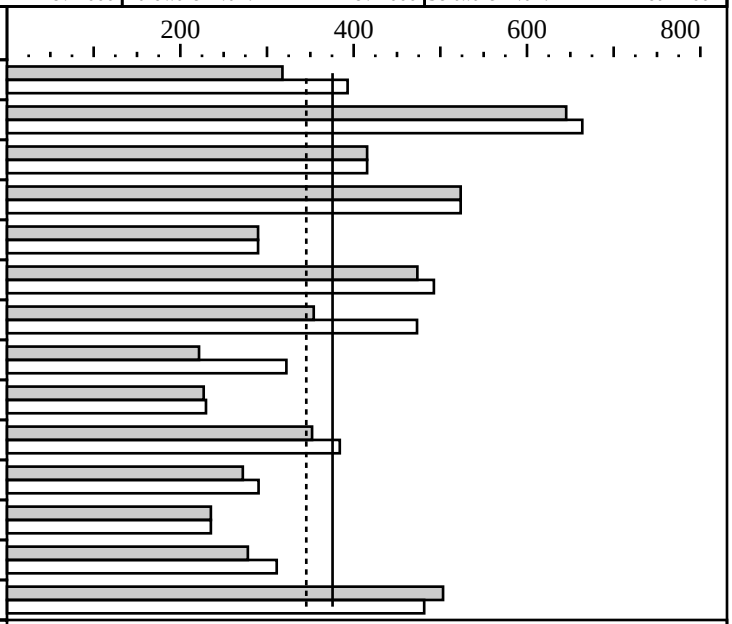
Hewlett-Packard Company
HP 9000 Model L3000

SPECfp2000 = 376

SPECfp_base2000 = 345

SPEC license #: 3 | Tested by: HP Richardson, TX | Test date: Nov-2000 | Hardware Avail: Nov-2000 | Software Avail: Jan-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	503	318	407	393
171.swim	3100	480	645	467	664
172.mgrid	1800	433	416	433	416
173.applu	2100	401	523	401	523
177.mesa	1400	483	290	483	290
178.galgel	2900	612	474	589	493
179.art	2600	735	354	550	473
183.equake	1300	587	222	403	322
187.facerec	1900	837	227	828	230
188.ammp	2200	625	352	573	384
189.lucas	2000	735	272	689	290
191.fma3d	2100	893	235	893	235
200.sixtrack	1100	396	278	353	311
301.apsi	2600	517	503	540	481



Hardware

CPU:	550 MHz PA-8600
CPU MHz:	550
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1-4
Parallel:	No
Primary Cache:	512KBI+1MBD (on chip)
Secondary Cache:	none
L3 Cache:	none
Other Cache:	None
Memory:	8GB
Disk Subsystem:	2x36 GB 10000RPM
Other Hardware:	--

Software

Operating System:	HP-UX B.11.0
Compiler:	HP92453-01 A.11.01.20 HP C Compiler HP-UX f90 20001003 (213450) PHSS_22539 B.11.01.25 HP MLIB Math Library B.07.00
File System:	HP-UX HFS
System State:	Multi-user

Notes/Tuning Information

```
Portability flags:
178.galgel: +source=fixed
  188.ammp: -DSPEC_CPU2000
Compiler invoked in extended ANSI mode: cc -Ae
Base flags:
f90: +O3 +Onofltacc -Wl,-a,archive -Wl,+FPD
cc:  +Oall +Odataprefetch -Wl,-a,archive +I/+P
Peak flags:
Peak flags = base flags for 172.mgrid, 173.applu, 177.mesa and 191.fma3d
 168.wupwise: +O3 +Onofltacc +cat -Wl,+FPD -Wl,-a,archive
    171.swim: +O3 +Onolimit +Oinlinebudget=1000 -Wl,+FPD -Wl,-a,archive
   172.mgrid: basepeak
   173.applu: basepeak
    177.mesa: basepeak
  178.galgel: +Oall +fastallocatable -Wl,+FPD -Wl,-a,archive -llapack
              RM_SOURCES = lapak.f90
     179.art: +Oall +Odataprefetch +Onofltacc +Optrs_strongly_typed
```

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Notes/Tuning Information (Continued)

```
                -Wl,+FPD -Wl,-a,archive +I/+P
  183.equake: +Oall +Odataprefetch +Optrs_strongly_typed -Wl,+FPD -Wl,-a,archive
 187.facerec: +O2 +Ofastaccess +fastallocatable -Wl,+FPD -Wl,-a,archive
                -Wl,/opt/langtools/lib/fastmem.o
    188.ammp: +Oall +Odataprefetch +Optrs_strongly_typed -Wl,+FPD
                -Wl,-a,archive +I/+P
   189.lucas: +O3 +Onoinline -Wl,+FPD -Wl,-a,archive
   191.fma3d: basepeak
200.sixtrack: +O3 +Onoinline +Onolimit +Onolibcalls +Onodataprefetch -Wl,+FPD
                -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
    301.apsi: +O3 +Onodataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive
Kernel tunables:
vps_pagesize=4096, vps_ceiling=16384, maxdsiz=0X040000000, maxssiz=0X10000000, dbc_max_pct=10, dbc_min_pct=10
Unused processors disabled at boot
Event Monitoring System disabled.
```