CFP2000 Result

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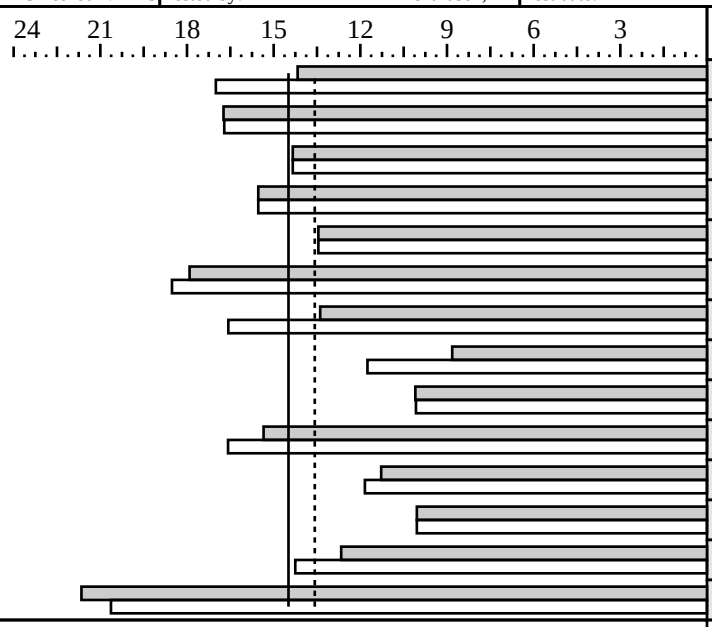
Hewlett-Packard Company
HP 9000 Model L3000

SPECfp_rate2000 = 14.5

SPECfp_rate_base2000 = 13.6

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	524	14.2	4	437	17.0
171.swim	4	859	16.7	4	861	16.7
172.mgrid	4	582	14.3	4	582	14.3
173.applu	4	627	15.5	4	627	15.5
177.mesa	4	483	13.5	4	483	13.5
178.galgel	4	751	17.9	4	727	18.5
179.art	4	901	13.4	4	728	16.6
183.equake	4	684	8.82	4	513	11.8
187.facerec	4	873	10.1	4	875	10.1
188.ammp	4	665	15.3	4	616	16.6
189.lucas	4	823	11.3	4	784	11.8
191.fma3d	4	970	10.0	4	970	10.0
200.sixtrack	4	403	12.7	4	358	14.3
301.apsi	4	557	21.7	4	585	20.6

Hardware

CPU:	550 MHz PA-8600
CPU MHz:	550
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 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
Event Monitoring System disabled.
```