CFP2000 Result

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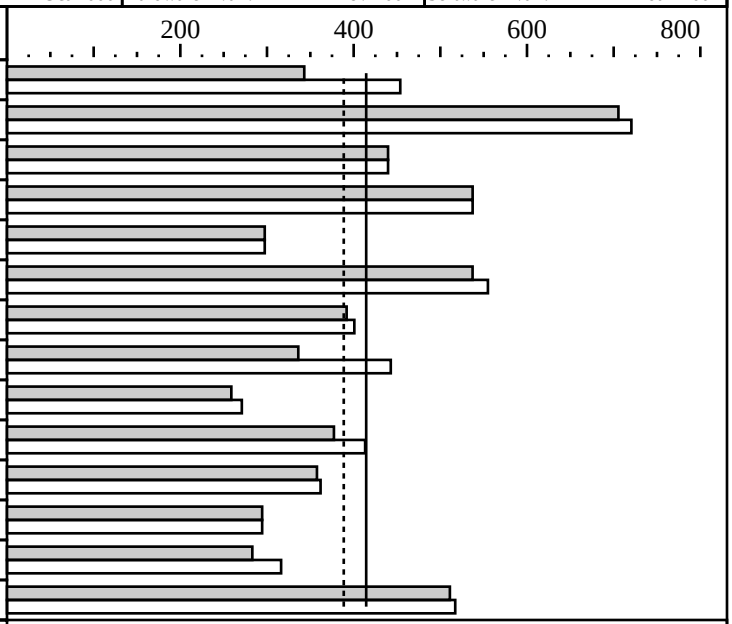
Hewlett-Packard Company
HP 9000 Model A500

SPECfp2000 = 414

SPECfp_base2000 = 389

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	466	343	353	454
171.swim	3100	439	705	430	720
172.mgrid	1800	409	440	409	440
173.applu	2100	391	537	391	537
177.mesa	1400	471	297	471	297
178.galgel	2900	540	537	523	555
179.art	2600	663	392	649	401
183.equake	1300	387	336	294	443
187.facerec	1900	734	259	701	271
188.ammp	2200	583	377	532	413
189.lucas	2000	559	358	553	362
191.fma3d	2100	713	294	713	294
200.sixtrack	1100	389	283	348	316
301.apsi	2600	509	511	503	517



Hardware

CPU:	550 MHz PA-8600
CPU MHz:	550
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	--
Primary Cache:	512KBI+1MBD (on chip)
Secondary Cache:	none
L3 Cache:	none
Other Cache:	None
Memory:	8GB
Disk Subsystem:	2x18 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 20000928 (181730) B.11.01.25 HP-UX f90 20001003 (213450) PHSS_22539 B.11.01.25 HP MLIB Math Library B.07.00
File System:	HP-UX VxFS
System State:	Multi-user

Notes/Tuning Information

```
Portability flags:
        cc: -Ae
178.galgel: +source=fixed
  188.ammp: -DSPEC_CPU2000

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
```

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Notes/Tuning Information (Continued)

```
                RM_SOURCES = lapak.f90
      179.art: +Oall +Odataprefetch +Onofltacc +Optrs_strongly_typed
               -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
2nd processor disabled at boot - co cpu 1 off
Event Monitoring System disabled.
```