



# 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.earthquake	1300	387	336	294	443
187.facerec	1900	734	259	701	271
188.amp	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.amp: -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.quake: +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.amp: +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=0X04000000, maxssiz=0X10000000
2nd processor disabled at boot - co cpu 1 off
Event Monitoring System disabled.

```