



# 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.earthquake	1300	587	222	403	322	
187.facerec	1900	837	227	828	230	
188.amp	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.amp: -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 = lapack.f90  
 179.art: +Oall +Odataprefetch +Onofltacc +Optrs\_strongly\_typed



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## Notes/Tuning Information (Continued)

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-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.ampp: +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, dbc_max_pct=10, dbc_min_pct=10
Unused processors disabled at boot
Event Monitoring System disabled.

```