



# 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

24	21	18	15	12	9	6	3	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.amp	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.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 = lapak.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
Event Monitoring System disabled.

```