



# CFP2000 Result

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Hewlett-Packard Company  
hp visualize b2000 UNIX workstation

SPECfp\_rate2000 = 4.15  
SPECfp\_rate\_base2000 = 3.72

SPEC license #: 3 Tested by: HP TCL Fort Collins CO Test date: Oct-2000 Hardware Avail: Feb-2000 Software Avail: Sep-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	638	2.91	1	471	3.94
171.swim	1	422	8.53	1	414	8.70
172.mgrid	1	508	4.11	1	508	4.11
173.applu	1	439	5.55	1	439	5.55
177.mesa	1	641	2.53	1	570	2.85
178.galgel	1	619	5.43	1	587	5.73
179.art	1	602	5.01	1	426	7.08
183.equake	1	498	3.03	1	334	4.52
187.facerec	1	975	2.26	1	922	2.39
188.amp	1	707	3.61	1	637	4.01
189.lucas	1	698	3.32	1	698	3.32
191.fma3d	1	930	2.62	1	930	2.62
200.sixtrack	1	524	2.43	1	466	2.74
301.apsi	1	635	4.75	1	635	4.75

### Hardware

CPU: 400 MHz PA-8500  
CPU MHz: 400  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1  
Parallel: --  
Primary Cache: 500KBI+1MBD (on chip)  
Secondary Cache: none  
L3 Cache: none  
Other Cache: None  
Memory: 2GB  
Disk Subsystem: 1x9Gbyte 10000RPM + 1x9Gbyte LVD 10000RPM  
Other Hardware: --

### Software

Operating System: HP-UX B.11.0  
Compiler: HP-UX f90 20000928 (181730) B.11.01.25  
HP92453-01 A.11.01.21505.GP HP C Compiler  
HP-UX f77 971027 (162928) B.11.00.01  
File System: HP-UX VxFS  
System State: Multi-user

## Notes/Tuning Information

Portability flags:

cc: -Ae  
178.galgel: +source=fixed

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, 189.lucas, 191.fma3d and 301.apsi  
168.wupwise: f77 +DA2.0 +DS2.0 +O4 +Odataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive  
171.swim: +O3 +Ocacheadcommon +Oloop\_unroll -Wl,+FPD -Wl,-a,archive  
177.mesa: +I/+P +Oall +Odataprefetch +Opromote\_indirect\_calls -Wl,+FPD -Wl,-a,archive  
178.galgel: +Oall +fastallocatable -Wl,+FPD -Wl,-a,archive -llapack  
178.galgel: RM\_SOURCES = lapak.f90  
179.art: +Oall +Onodataprefetch +Onofltacc +I/+P +Optrs\_strongly\_typed -Wl,+FPD -Wl,-a,archive  
183.equake: +Oall +Odataprefetch +Optrs\_strongly\_typed -Wl,+FPD -Wl,-a,archive



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## Notes/Tuning Information (Continued)

```
187.facerec: +O2 +Ofastaccess +fastallocatable -Wl,+FPD  
            -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o  
188.ammp: +Oall +Odataprefetch +Optrs_strongly_typed +I/+P -Wl,+FPD -Wl,-a,archive  
200.sixtrack: +Oall +fastallocatable +Onodataprefetch -Wl,+FPD  
            -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
```

Kernel tunables:

vps\_pagesize=4096, vps\_ceiling=4096, dbc\_min\_pct=25, dbc\_max\_pct=25