



# CFP2000 Result

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Hewlett-Packard Company  
hp server rp7400

SPECfp\_rate2000 = 11.0  
SPECfp\_rate\_base2000 = 9.86

SPEC license #: 3 Tested by: HP Test date: Aug-2001 Hardware Avail: Sep-2001 Software Avail: Sep-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	505	7.36	2	299	12.4
171.swim	2	537	13.4	2	537	13.4
172.mgrid	2	452	9.23	2	452	9.23
173.applu	2	471	10.4	2	471	10.4
177.mesa	2	250	13.0	2	244	13.3
178.galgel	2	226	29.8	2	226	29.8
179.art	2	559	10.8	2	384	15.7
183.equake	2	586	5.15	2	424	7.12
187.facerec	2	582	7.57	2	564	7.82
188.amp	2	472	10.8	2	414	12.3
189.lucas	2	699	6.64	2	675	6.88
191.fma3d	2	804	6.06	2	792	6.16
200.sixtrack	2	271	9.41	2	243	10.5
301.apsi	2	458	13.2	2	458	13.2

### Hardware

CPU: PA-8700  
CPU MHz: 750  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 1-8  
Parallel: No  
Primary Cache: 0.75MBI + 1.5MBD on chip  
Secondary Cache: None  
L3 Cache: None  
Other Cache: None  
Memory: 16GB  
Disk Subsystem: 2x9GB SCSI disk  
Other Hardware: None

### Software

Operating System: B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches  
Compiler: HP ANSI C 11.11.03  
aC++ C.03.30.02  
Fortran90 11.11.40  
PHSS\_24207 libm patch  
File System: HFS  
System State: Multi-user

## Notes/Tuning Information

### Portability Flags:

178.galgel: +source=fixed

### Base Flags:

f90: +O3 +Onofltacc -Wl,-a,archive -Wl,+FPD  
C: +I/+P +O4 +Odataprefetch -Wl,-a,archive

### Peak Flags:

168.wupwise: +cat +O3 +Odataprefetch +Onofltacc  
-Wl,+FPD -Wl,-a,archive  
171.swim: basepeak=true  
172.mgrid: basepeak=true  
173.applu: basepeak=true  
177.mesa: +I/+P +Oall +Odataprefetch +Opromote\_indirect\_calls  
-Wl,+FPD -Wl,-a,archive



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## Notes/Tuning Information (Continued)

```

178.galgel: basepeak=true
179.art: +I/+P +Oall +Odataprefetch +Onofltacc
        +Optrs_strongly_typed +Opromote_indirect_calls
        -Wl,+FPD -Wl,-a,archive
183.quake: +O4 +Olibcalls +Odataprefetch +Optrs_strongly_typed
        +Opromote_indirect_calls
        -Wl,+FPD -Wl,-a,archive
187.facerec: +cat +O3 +Ofastaccess
        -Wl,+FPD -Wl,-a,archive
188.ammp: +I/+P +Oall +Odataprefetch +Optrs_strongly_typed
        +Opromote_indirect_calls
        -Wl,+FPD -Wl,-a,archive
189.lucas: +O3 +Onoinline
        -Wl,+FPD -Wl,-a,archive
191.fma3d: +O3 +Onolimit
        -Wl,+FPD -Wl,-a,archive
200.sixtrack: +cat +O3 +Onolibcalls +Onolimit +Onoinline
        +Odataprefetch
        -Wl,+FPD -Wl,-a,archive
301.apsi: basepeak=true
ONESTEP=true for 168.wupwise, 187.facerec, 200.sixtrack

```

### System tunables:

```

vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 20, dbc_max_pct 20
maxdsiz 2063835136, maxssiz 401604608
Unused processors disabled at boot

```