



# CFP2000 Result

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Hewlett-Packard Company  
hp server rp5470

SPECfp\_rate2000 = 18.7

SPECfp\_rate\_base2000 = 16.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	577	12.9	4	342	21.7
171.swim	4	773	18.6	4	773	18.6
172.mgrid	4	558	15.0	4	558	15.0
173.applu	4	592	16.5	4	592	16.5
177.mesa	4	286	22.7	4	281	23.1
178.galgel	4	262	51.4	4	262	51.4
179.art	4	655	18.4	4	441	27.3
183.equake	4	659	9.16	4	490	12.3
187.facerec	4	658	13.4	4	639	13.8
188.amp	4	534	19.1	4	468	21.8
189.lucas	4	795	11.7	4	769	12.1
191.fma3d	4	898	10.9	4	884	11.0
200.sixtrack	4	312	16.4	4	281	18.2
301.apsi	4	526	22.9	4	526	22.9

### Hardware

CPU: PA-8700  
CPU MHz: 650  
FPU: Integrated  
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
CPU(s) orderable: 1 to 4  
Parallel: No  
Primary Cache: 0.75MBI + 1.5MBD on chip  
Secondary Cache: None  
L3 Cache: None  
Other Cache: None  
Memory: 4GB  
Disk Subsystem: 18GB 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  
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:

ONESTEP=true for 168.wupwise, 187.facerec, 200.sixtrack

168.wupwise: +cat +O3 +Odataprefetch +Onofltacc  
-Wl,+FPD -Wl,-a,archive

171.swim: basepeak=true

172.mgrid: basepeak=true

173.applu: basepeak=true



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## Notes/Tuning Information (Continued)

```

177.mesa:  +I/+P +Oall +Odataprefetch +Opromote_indirect_calls
           -Wl,+FPD -Wl,-a,archive
178.galgel: basepeak=true
179.art:    +I/+P +Oall +Onodataprefetch +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
            +Onodataprefetch
            -Wl,+FPD -Wl,-a,archive
301.apsi:    basepeak=true

```

### System tunables:

```

vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 20, dbc_max_pct 20
maxdsiz 2063835136, maxssiz 401604608

```