



# CFP2000 Result

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Hewlett-Packard Company  
hp server rp5470

SPECfp2000 = 522

SPECfp\_base2000 = 462

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	482	332	285	562
171.swim	3100	394	788	394	788
172.mgrid	1800	385	468	385	468
173.applu	2100	356	590	356	590
177.mesa	1400	246	569	245	570
178.galgel	2900	212	1367	212	1367
179.art	2600	524	496	324	802
183.quake	1300	549	237	376	346
187.facerec	1900	573	332	552	344
188.amp	2200	463	475	408	539
189.lucas	2000	671	298	649	308
191.fma3d	2100	775	271	763	275
200.sixtrack	1100	271	406	242	455
301.apsi	2600	442	589	442	589

### Hardware

CPU: PA-8700  
CPU MHz: 750  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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
Unused processors disabled at boot

```