



# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
hp server rp5470

SPECfp\_rate2000 = 6.05  
SPECfp\_rate\_base2000 = 5.36

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	1	482	3.85	1	285	6.51
171.swim	1	394	9.14	1	394	9.14
172.mgrid	1	385	5.43	1	385	5.43
173.applu	1	356	6.85	1	356	6.85
177.mesa	1	246	6.60	1	245	6.62
178.galgel	1	212	15.9	1	212	15.9
179.art	1	524	5.76	1	324	9.30
183.equake	1	549	2.75	1	376	4.01
187.facerec	1	573	3.85	1	552	3.99
188.amp	1	463	5.51	1	408	6.26
189.lucas	1	671	3.46	1	649	3.57
191.fma3d	1	775	3.14	1	763	3.19
200.sixtrack	1	271	4.71	1	242	5.28
301.apsi	1	442	6.83	1	442	6.83

**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



# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
hp server rp5470

SPECfp\_rate2000 = 6.05  
SPECfp\_rate\_base2000 = 5.36

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

## 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

```