



# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
hp server rp7410

SPECfp\_rate2000 = 36.8

SPECfp\_rate\_base2000 = 34.2

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2002 Hardware Avail: Mar-2002 Software Avail: Mar-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	465	31.9	8	301	49.3
171.swim	8	851	33.8	8	851	33.8
172.mgrid	8	557	30.0	8	557	30.0
173.applu	8	730	26.7	8	730	26.7
177.mesa	8	236	54.9	8	236	54.9
178.galgel	8	264	102	8	264	102
179.art	8	879	27.4	8	731	33.0
183.quake	8	565	21.3	8	499	24.2
187.facerec	8	583	30.2	8	562	31.4
188.amp	8	621	32.9	8	579	35.3
189.lucas	8	657	28.3	8	653	28.4
191.fma3d	8	755	25.8	8	740	26.3
200.sixtrack	8	279	36.5	8	245	41.7
301.apsi	8	602	40.1	8	602	40.1

### Hardware

CPU: PA-8700  
 CPU MHz: 750  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
 CPU(s) orderable: 2 to 8 by 2  
 Parallel: No  
 Primary Cache: 0.75MB(I) + 1.5MB(D) on chip  
 Secondary Cache: None  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16GB (32x512MB DIMMs)  
 Disk Subsystem: 2x18 GB SCSI  
 Other Hardware: --

### Software

Operating System: HP-UX 11i TCOE B.11.11.0203  
 Compiler: HP ANSI C 11.11.04  
 Fortran90 11.11.48  
 PHSS\_24207 libm patch  
 File System: VxFS  
 System State: Multi-user

## Notes/Tuning Information

Portability flags:  
 178.galgel: +source=fixed

Baseline compile flags:  
 fortran: +O3 +Onofltacc -Wl,-a,archive -Wl,+FPD  
 C : +I/+P +O4 +Odataprefetch -Wl,-a,archive

Peak compile flags:  
 168.wupwise: (ONESTEP) +cat +O3 +Odataprefetch +Onofltacc  
 -Wl,+FPD -Wl,-a,archive  
 171.swim: basepeak=true  
 172.mgrid: basepeak=true  
 173.applu: basepeak=true  
 177.mesa: basepeak=true  
 178.galgel: basepeak=true  
 179.art: +I/+P +Oall +Odataprefetch +Onofltacc +Optrs\_strongly\_typed



# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
hp server rp7410

SPECfp\_rate2000 = 36.8  
SPECfp\_rate\_base2000 = 34.2

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Feb-2002 | Hardware Avail: Mar-2002 | Software Avail: Mar-2002

## Notes/Tuning Information (Continued)

```
+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: (ONESTEP) +cat +O3 +Ofastaccess -Wl,+FPD -Wl,-a,archive
188.ampp: +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: (ONESTEP) +cat +O3 +Onolibcalls +Onolimit +Onoinline
              +Onodataprefetch -Wl,+FPD -Wl,-a,archive
301.apsi: basepeak=true
```

### Hardware configuration notes:

System was configured as a single partition with 2 cells  
firmware tunable DataPrefetch enabled (default)

### Operating system configuration notes:

```
vps_pagesize 4096, vps_ceiling 16384
maxdsiz 0x80000000, maxssiz 0x10000000
maxdsiz_64bit 0x400000000, maxssiz_64bit 0x40000000
```