



# CFP2000 Result

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Hewlett-Packard Company  
hp workstation c3650

SPECfp\_rate2000 = 6.29  
SPECfp\_rate\_base2000 = 5.59

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Dec-2001 Hardware Avail: Nov-2001 Software Avail: Jan-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	471	3.94	1	282	6.58
171.swim	1	338	10.6	1	338	10.6
172.mgrid	1	342	6.11	1	342	6.11
173.applu	1	333	7.31	1	333	7.31
177.mesa	1	353	4.60	1	349	4.65
178.galgel	1	223	15.1	1	223	15.1
179.art	1	450	6.70	1	297	10.2
183.quake	1	353	4.27	1	255	5.92
187.facerec	1	566	3.90	1	551	4.00
188.amp	1	505	5.05	1	433	5.89
189.lucas	1	529	4.39	1	503	4.61
191.fma3d	1	655	3.72	1	639	3.81
200.sixtrack	1	326	3.92	1	289	4.42
301.apsi	1	479	6.30	1	479	6.30

Hardware	Software
CPU: PA-8700 CPU MHz: 625 FPU: Integrated CPU(s) enabled: 1 core, 1 chip, 1 core/chip CPU(s) orderable: 1 Parallel: No Primary Cache: 0.75MB(I) + 1.5MB(D) on chip Secondary Cache: None L3 Cache: None Other Cache: None Memory: 2GB (4x512MB DIMMs) Disk Subsystem: 1x18 GB SCSI Other Hardware:	Operating System: HP-UX 11i TCOE B.11.11.0109 PHKL_24779 LVM Cumulative Patch Compiler: HP ANSI C B11.11.04 Fortran90 B11.11.47 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: +I/+P +Oall +Odataprefetch +Opromote\_indirect\_calls  
-Wl,+FPD -Wl,-a,archive  
178.galgel: basepeak=true



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## Notes/Tuning Information (Continued)

```
179.art: +I/+P +Oall +Onodataprefetch +Onofltacc +Optrs_strongly_typed
        +Opromote_indirect_calls -Wl,+FPD -Wl,-a,archive
183.equake: +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.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: (ONESTEP) +cat +O3 +Onolibcalls +Onolimit +Onoinline
        +Onodataprefetch -Wl,+FPD -Wl,-a,archive
301.apsi: basepeak=true
```

Operating system configuration notes:

```
vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 15, dbc_max_pct 15
maxdsiz 0x7b03a000, maxssiz 256000000
nfile 8192
```