



CFP2000 Result

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Hewlett-Packard Company
hp visualize c3600 UNIX workstation

SPECfp_rate2000 = 5.02
SPECfp_rate_base2000 = 4.54

SPEC license #: 3 Tested by: HP TCL Fort Collins CO Test date: Oct-2000 Hardware Avail: Feb-2000 Software Avail: Sep-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	484	3.83	1	373	4.98
171.swim	1	398	9.04	1	394	9.12
172.mgrid	1	398	5.25	1	398	5.25
173.applu	1	365	6.67	1	365	6.67
177.mesa	1	471	3.45	1	418	3.89
178.galgel	1	540	6.23	1	515	6.53
179.art	1	555	5.44	1	401	7.53
183.equake	1	442	3.41	1	304	4.96
187.facerec	1	763	2.89	1	732	3.01
188.amp	1	563	4.53	1	512	4.98
189.lucas	1	599	3.87	1	599	3.87
191.fma3d	1	765	3.18	1	765	3.18
200.sixtrack	1	385	3.31	1	341	3.74
301.apsi	1	491	6.15	1	491	6.15

Hardware

CPU: 552 MHz PA-8600
 CPU MHz: 552
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: --
 Primary Cache: 500KBI+1MBD (on chip)
 Secondary Cache: none
 L3 Cache: none
 Other Cache: None
 Memory: 2GB
 Disk Subsystem: 1x9Gbyte 10000RPM + 1x9Gbyte LVD 10000RPM
 Other Hardware: --

Software

Operating System: HP-UX B.11.0
 Compiler: HP-UX f90 20000928 (181730) B.11.01.25
 HP92453-01 A.11.01.21505.GP HP C Compiler
 HP-UX f77 971027 (162928) B.11.00.01
 File System: HP-UX VxFS
 System State: Multi-user

Notes/Tuning Information

Portability flags:

cc: -Ae
178.galgel: +source=fixed

Base flags:

f90: +O3 +Onofltacc -Wl,-a,archive -Wl,+FPD
cc: +Oall +Odataprefetch -Wl,-a,archive +I/+P

Peak flags:

Peak flags = base flags for: 172.mgrid, 173.applu, 189.lucas, 191.fma3d and 301.apsi
 168.wupwise: f77 +DA2.0 +DS2.0 +O4 +Odataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive
 171.swim: +O3 +Ocachepadcommon +Oloop_unroll -Wl,+FPD -Wl,-a,archive
 177.mesa: +I/+P +Oall +Odataprefetch +Opromote_indirect_calls -Wl,+FPD -Wl,-a,archive
 178.galgel: +Oall +fastallocatable-Wl,+FPD -Wl,-a,archive -llapack
 RM_SOURCES = lapack.f90
 179.art: +Oall +Odataprefetch +I/+P +Onofltacc +Optrs_strongly_typed -Wl,+FPD -Wl,-a,archive
 183.equake: +Oall +Odataprefetch +Optrs_strongly_typed -Wl,+FPD -Wl,-a,archive



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Notes/Tuning Information (Continued)

```
187.facerec: +O2 +Ofastaccess +fastallocatable -Wl,+FPD
             -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
188.amp:     +Oall +Odataprefetch +Optrs_strongly_typed +I/+P -Wl,+FPD -Wl,-a,archive
200.sixtrack: +Oall +fastallocatable +Onodataprefetch -Wl,+FPD
             -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
```

Kernel tunables:

vps_pagesize=4096, vps_ceiling=4096, dbc_min_pct=25, dbc_max_pct=25