



CFP2000 Result

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Hewlett-Packard Company
hp visualize j6000 UNIX workstation

SPECfp_rate2000 = 8.03
SPECfp_rate_base2000 = 7.58

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	483	7.69	2	372	9.98
171.swim	2	797	9.02	2	797	9.03
172.mgrid	2	519	8.05	2	519	8.05
173.applu	2	620	7.86	2	620	7.86
177.mesa	2	472	6.88	2	415	7.84
178.galgel	2	673	9.99	2	650	10.4
179.art	2	944	6.39	2	977	6.18
183.equake	2	446	6.77	2	381	7.91
187.facerec	2	755	5.84	2	714	6.18
188.amp	2	628	8.13	2	582	8.77
189.lucas	2	632	7.35	2	632	7.35
191.fma3d	2	755	6.46	2	755	6.46
200.sixtrack	2	386	6.60	2	343	7.43
301.apsi	2	563	10.7	2	563	10.7

Hardware

CPU: 552 MHz PA-8600
 CPU MHz: 552
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 2
 Parallel: --
 Primary Cache: 500KBI+1MBD (on chip)
 Secondary Cache: none
 L3 Cache: none
 Other Cache: None
 Memory: 8GB
 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 +Onodataprefetch +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.ampp:    +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