CFP2000 Result

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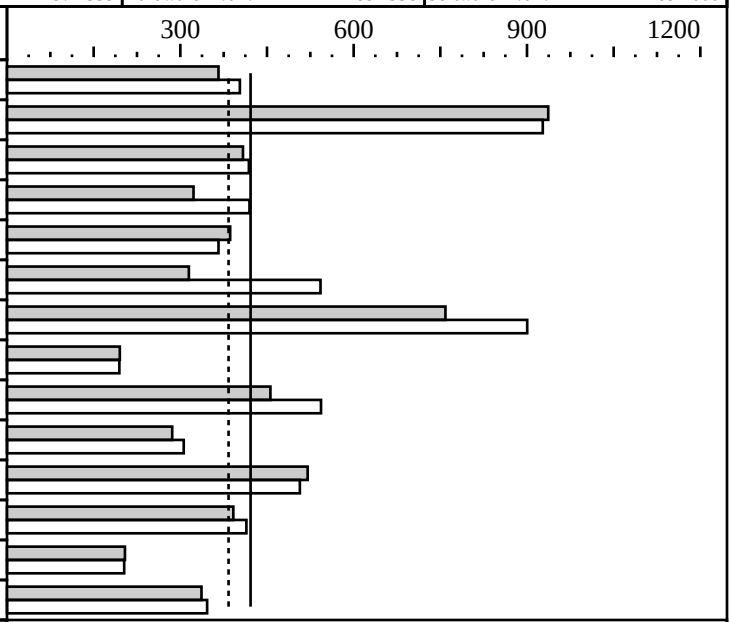
Compaq Computer Corporation
AlphaServer DS20 Model 6/500

SPECfp2000 = 422

SPECfp_base2000 = 383

SPEC license #: 2 | Tested by: Compaq NH | Test date: Nov-1999 | Hardware Avail: Dec-1998 | Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	437	366	397	403
171.swim	3100	331	937	334	927
172.mgrid	1800	441	408	430	419
173.applu	2100	650	323	500	420
177.mesa	1400	362	386	382	366
178.galgel	2900	921	315	534	543
179.art	2600	343	759	289	900
183.equake	1300	666	195	668	194
187.facerec	1900	417	456	350	544
188.ammp	2200	769	286	719	306
189.lucas	2000	384	520	395	507
191.fma3d	2100	536	392	507	414
200.sixtrack	1100	539	204	542	203
301.apsi	2600	772	337	751	346



Hardware

CPU:	Alpha 21264
CPU MHz:	500
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1 to 2
Parallel:	No
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	2GB (16x128MB)
Disk Subsystem:	3x4GB
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX V4.0F
Compiler:	Compaq C X6.2-259-449AT Compaq Fortran T5.3 (ft2+) /usr/bin/f77: fort (not fort90) KAP Fortran V4.2 KAP C 4.0
File System:	ufs
System State:	Multi-user

Notes/Tuning Information

```
Baseline   C: cc   -v -arch ev6 -fast -O4 ONESTEP
     Fortran: kf90 -v -arch ev6 -O5 -fkapargs='-ur=-1' ONESTEP

Peak: -v -g3 -arch ev6 -non_shared ONESTEP plus:
   168.wupwise: f77 -fast -O4 -pipeline -unroll 2
      171.swim: f90 -fast -O5 -transform_loops
     172.mgrid: kf77 -O5 -transform_loops -tune ev6 -unroll 8
     173.applu: f77 -fast -O5 -transform_loops -unroll 14
      177.mesa: cc -fast -O4
    178.galgel: kf90 -O4 -unroll 2 -ldxml
                RM_SOURCES = lapak.f90
       179.art: kcc -fast -O4 -ckapargs='-arl=4 -ur=4' -unroll 10
    183.equake: kcc -fast -ckapargs='-arl=4' -xtaso_short
   187.facerec: f90 -fast -O4
      188.ammp: cc -fast -O4 -xtaso_short
     189.lucas: kf90 -fast -O5 -fkapargs='-ur=1' -unroll 1
     191.fma3d: kf90 -O4
```

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Notes/Tuning Information (Continued)

```
  200.sixtrack: f90 -fast -O5 -transform_loops
      301.apsi: kf90 -O5 -transform_loops -unroll 8 -fkapargs='-ur=1'

Portability: galgel: -fixed
The C compiler used here will be available to customers as V6.3
at http://www.unix.digital.com/dtk/ .  It will be available as an
ADK (Advanced Developers' Kit) in February, 2000 and as the final
version in July, 2000.
```