CFP2000 Result

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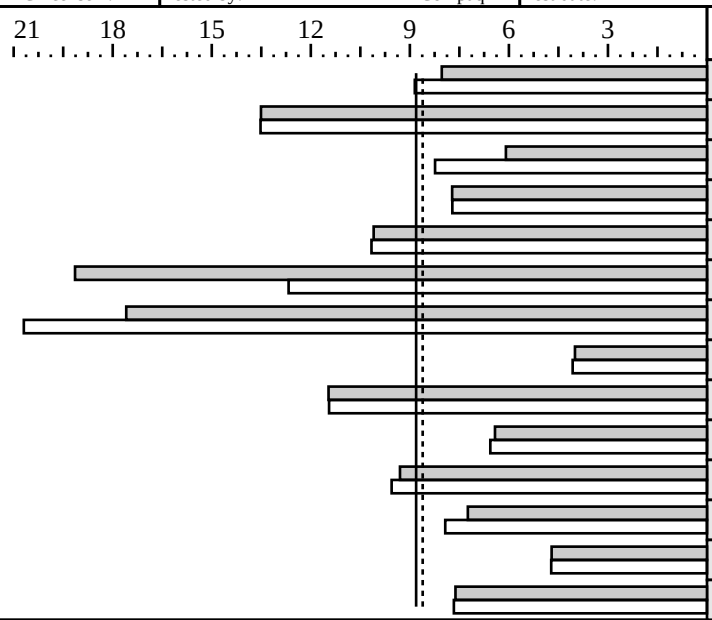
Compaq Computer Corporation
AlphaServer DS20 Model 6/500

SPECfp_rate2000 = 8.81

SPECfp_rate_base2000 = 8.61

SPEC license #: 2 | Tested by: Compaq NH | Test date: Jan-2001 | Hardware Avail: Dec-1998 | Software Avail: Dec-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	462	8.03	2	419	8.85
171.swim	2	532	13.5	2	532	13.5
172.mgrid	2	686	6.09	2	507	8.24
173.applu	2	631	7.72	2	632	7.71
177.mesa	2	322	10.1	2	320	10.2
178.galgel	2	351	19.1	2	531	12.7
179.art	2	343	17.6	2	292	20.7
183.equake	2	754	4.00	2	741	4.07
187.facerec	2	385	11.5	2	385	11.4
188.ammp	2	795	6.42	2	778	6.56
189.lucas	2	499	9.30	2	486	9.55
191.fma3d	2	673	7.24	2	615	7.93
200.sixtrack	2	542	4.71	2	541	4.72
301.apsi	2	792	7.62	2	787	7.67

Hardware

CPU:	Alpha 21264
CPU MHz:	500
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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
Disk Subsystem:	2x9GB (rz2dd-ls)
Other Hardware:	None

Software

Operating System:	Tru64 UNIX V5.1 Libc from UNIX V5.1 Patch Kit 1
Compiler:	Compaq C V6.3-129-44A8I Compaq Fortran V5.4-1283-46ABA Compaq Fortran 77 V5.4-194-46ABA KAP Fortran V4.3 000607 KAP C V4.1 000607
File System:	AdvFS
System State:	Multi-user

Notes/Tuning Information

```
Baseline   C: cc  -arch ev6 -fast -O4 ONESTEP
     Fortran: f90 -arch ev6 -fast -O5 ONESTEP

Peak:  -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

Information on UNIX V5.1 Patches can be found at
http://ftp1.service.digital.com/public/unix/v5.1/
```