CFP2000 Result

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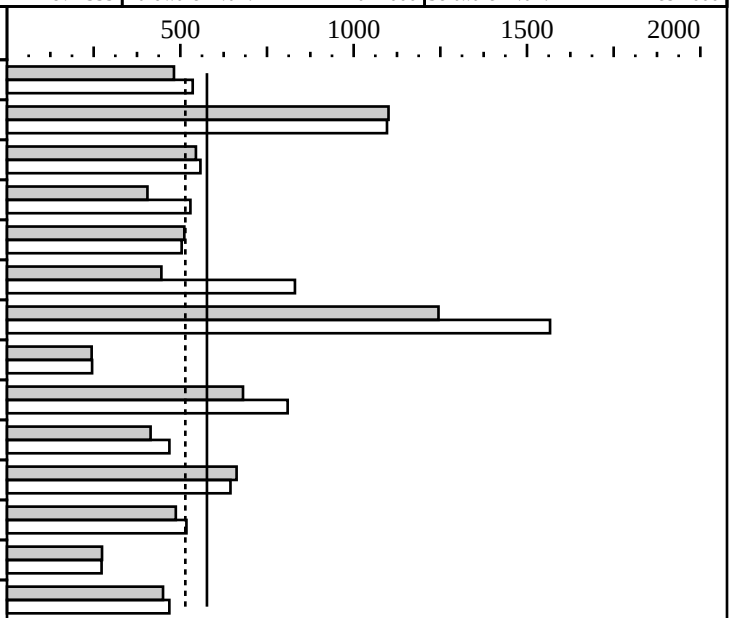
Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECfp2000 = 577

SPECfp_base2000 = 514

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	332	482	299	536
171.swim	3100	282	1101	283	1096
172.mgrid	1800	330	545	323	558
173.applu	2100	518	405	397	529
177.mesa	1400	274	511	278	504
178.galgel	2900	651	445	349	831
179.art	2600	209	1245	166	1566
183.equake	1300	532	244	530	245
187.facerec	1900	279	681	235	810
188.ammp	2200	531	414	470	468
189.lucas	2000	302	662	310	645
191.fma3d	2100	431	487	406	518
200.sixtrack	1100	401	274	403	273
301.apsi	2600	578	450	555	468



Hardware

CPU:	Alpha 21264A
CPU MHz:	667
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:	8MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	512MB (16x32MB)
Disk Subsystem:	1x4GB
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.
```