CFP2000 Result

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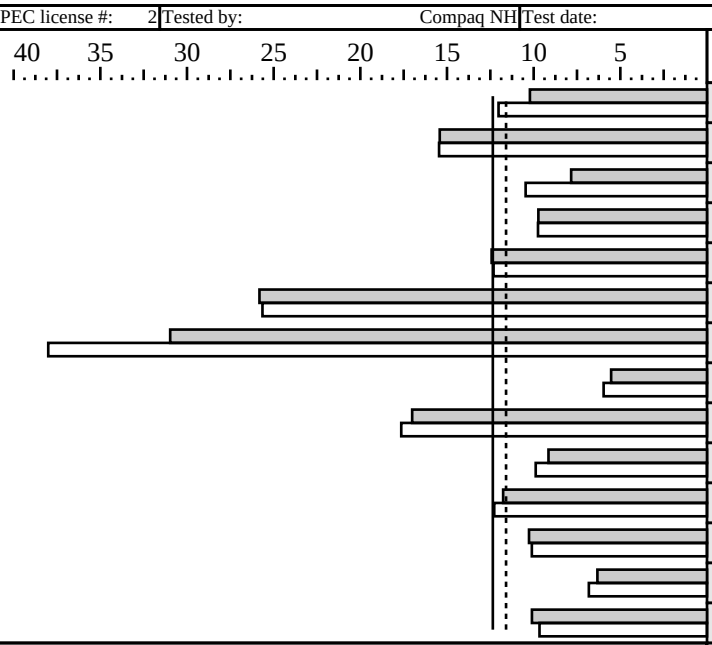
Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECfp_rate2000 = 12.4

SPECfp_rate_base2000 = 11.6

SPEC license #: 2 | Tested by: Compaq NH | Test date: Jul-2001 | Hardware Avail: Mar-2000 | Software Avail: Feb-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	363	10.2	2	309	12.0
171.swim	2	466	15.4	2	465	15.5
172.mgrid	2	533	7.84	2	399	10.5
173.applu	2	501	9.73	2	500	9.75
177.mesa	2	261	12.4	2	264	12.3
178.galgel	2	261	25.8	2	262	25.6
179.art	2	195	31.0	2	159	38.0
183.equake	2	545	5.53	2	506	5.96
187.facerec	2	259	17.0	2	250	17.6
188.ammp	2	558	9.14	2	516	9.88
189.lucas	2	395	11.8	2	378	12.3
191.fma3d	2	474	10.3	2	482	10.1
200.sixtrack	2	404	6.32	2	374	6.82
301.apsi	2	597	10.1	2	624	9.66

Hardware

CPU:	Alpha 21264A
CPU MHz:	667
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:	8MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	1x18GB
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX V5.1 UNIX V5.1 Patch Kit 2
Compiler:	Compaq C V6.4-214-46B59 Compaq Fortran V5.4A-1472-46B2F Compaq Fortran 77 V5.4A-196-46B2F KAP Fortran V4.3 000607 KAP Fortran 77 V4.1 980926 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: kf77 -fast -O4 -pipeline -unroll 2
      171.swim: f90 -fast -O5
     172.mgrid: kf77 -O5 -transform_loops -tune ev6 -unroll 8
     173.applu: f90 -fast -O5
      177.mesa: cc -fast -O4
    178.galgel: f90 -fast -O5
       179.art: kcc -fast -O4 -ckapargs='-arl=4 -ur=4' -unroll 10
    183.equake:  cc -fast -xtaso_short
   187.facerec: f90 -fast -O4
      188.ammp: cc -fast -O4 -xtaso_short
     189.lucas: kf90 -O5 -fkapargs='-ur=1'
     191.fma3d: kf90 -O4
  200.sixtrack: f90 -fast -O5 -assume accuracy_sensitive
```

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Notes/Tuning Information (Continued)

```
      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/
```