CFP2000 Result

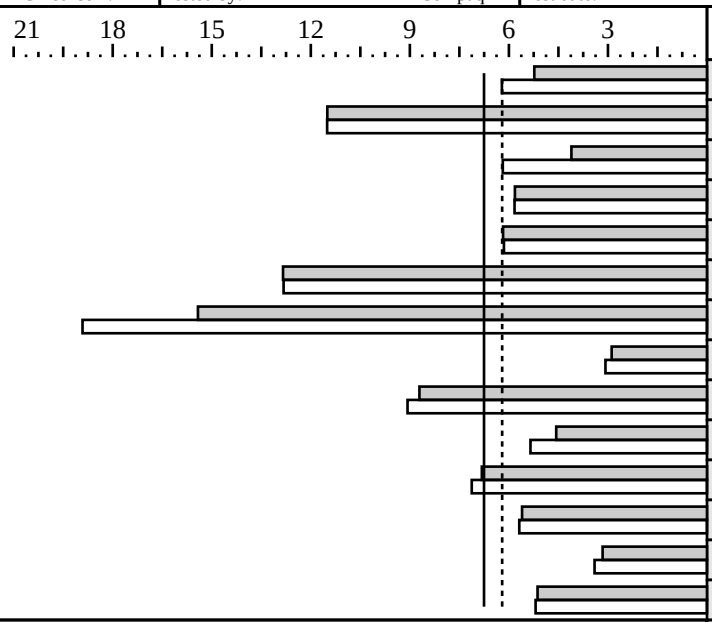
Copyright ©1999-2004, Standard Performance Evaluation Corporation

Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECfp_rate2000 = 6.75

SPECfp_rate_base2000 = 6.20

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	355	5.23	1	299	6.21
171.swim	1	313	11.5	1	313	11.5
172.mgrid	1	508	4.11	1	338	6.19
173.applu	1	419	5.82	1	418	5.83
177.mesa	1	263	6.18	1	264	6.15
178.galgel	1	262	12.8	1	262	12.8
179.art	1	196	15.4	1	159	18.9
183.equake	1	522	2.89	1	490	3.08
187.facerec	1	253	8.71	1	243	9.07
188.ammp	1	559	4.57	1	477	5.35
189.lucas	1	340	6.82	1	326	7.13
191.fma3d	1	435	5.60	1	428	5.69
200.sixtrack	1	404	3.16	1	375	3.41
301.apsi	1	588	5.13	1	581	5.19

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:	1x18GB
Other Hardware:	None

Software

Operating System:	Tru64 UNIX V5.1 UNIX V5.1 Patch Kit 2
Compiler:	Compaq C T6.4-208-46B2F Compaq Fortran V5.4A-1472-46B2F Compaq Fortran 77 V5.4-196-46B2F 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
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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/
```