CFP2000 Result

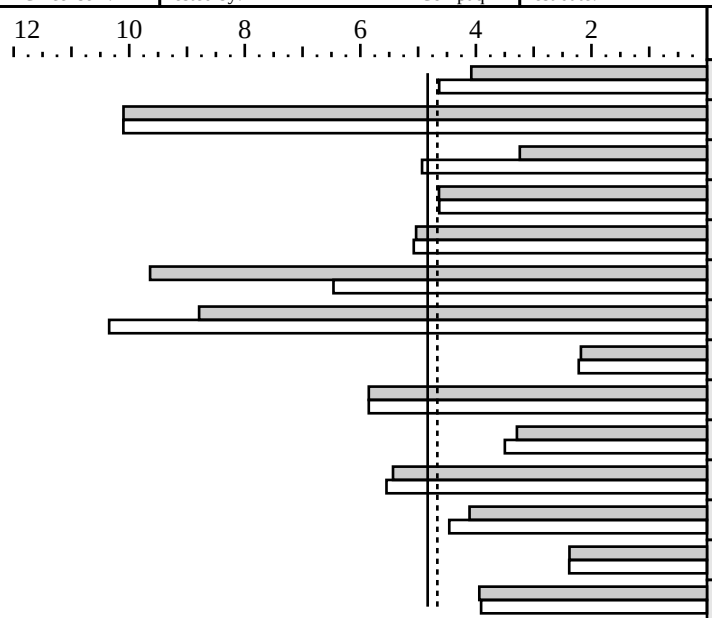
Copyright ©1999-2004, Standard Performance Evaluation Corporation

Compaq Computer Corporation
AlphaServer DS20 Model 6/500

SPECfp_rate2000 = 4.83

SPECfp_rate_base2000 = 4.67

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	1	455	4.08	1	400	4.64
171.swim	1	356	10.1	1	356	10.1
172.mgrid	1	644	3.24	1	423	4.93
173.applu	1	525	4.64	1	526	4.63
177.mesa	1	323	5.03	1	320	5.08
178.galgel	1	349	9.64	1	520	6.46
179.art	1	343	8.79	1	291	10.3
183.equake	1	691	2.18	1	679	2.22
187.facerec	1	377	5.85	1	377	5.85
188.ammp	1	776	3.29	1	729	3.50
189.lucas	1	427	5.43	1	418	5.55
191.fma3d	1	593	4.11	1	546	4.46
200.sixtrack	1	536	2.38	1	535	2.38
301.apsi	1	765	3.94	1	771	3.91

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
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
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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/
```