CFP2000 Result

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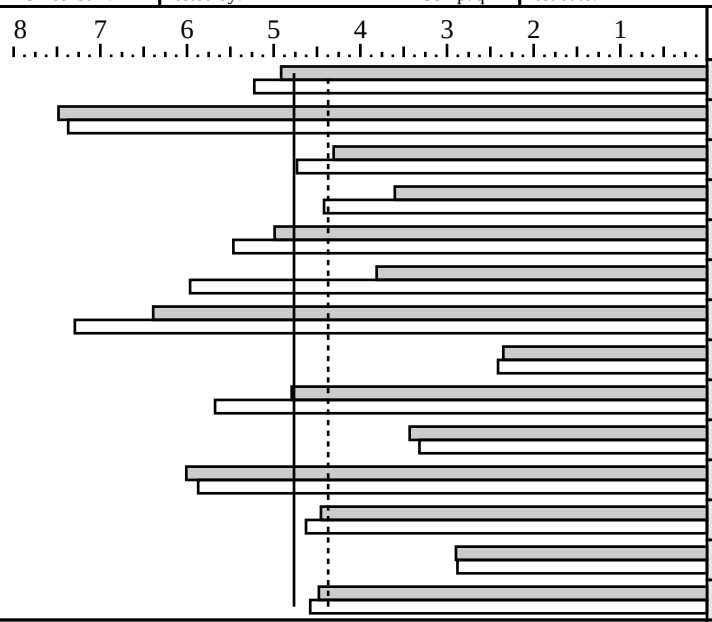
Compaq Computer Corporation
AlphaServer DS10 6/600

SPECfp_rate2000 = 4.77

SPECfp_rate_base2000 = 4.37

SPEC license #: 2 | Tested by: Compaq NH | Test date: Jun-2000 | Hardware Avail: Oct-2000 | Software Avail: Jul-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	378	4.91	1	355	5.22
171.swim	1	481	7.48	1	488	7.37
172.mgrid	1	485	4.31	1	441	4.73
173.applu	1	676	3.60	1	551	4.42
177.mesa	1	326	4.99	1	297	5.46
178.galgel	1	883	3.81	1	564	5.96
179.art	1	472	6.39	1	413	7.29
183.equake	1	642	2.35	1	625	2.41
187.facerec	1	460	4.79	1	388	5.68
188.ammp	1	744	3.43	1	769	3.32
189.lucas	1	386	6.01	1	395	5.87
191.fma3d	1	547	4.45	1	526	4.63
200.sixtrack	1	440	2.90	1	443	2.88
301.apsi	1	673	4.48	1	659	4.58

Hardware

CPU:	Alpha 21264A
CPU MHz:	616
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	2MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	1GB
Disk Subsystem:	1x9GB RZ2DD-LS
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX V4.0G
Compiler:	Compaq C X6.2-259-449AT Compaq Fortran V5.3 /usr/bin/f77: fort (not fort90) KAP Fortran V4.2 KAP C 4.0
File System:	AdvFS
System State:	Multi-user

Notes/Tuning Information

```
Baseline   C: cc   -arch ev6 -fast -O4 ONESTEP
     Fortran: kf90 -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
```