CFP2000 Result

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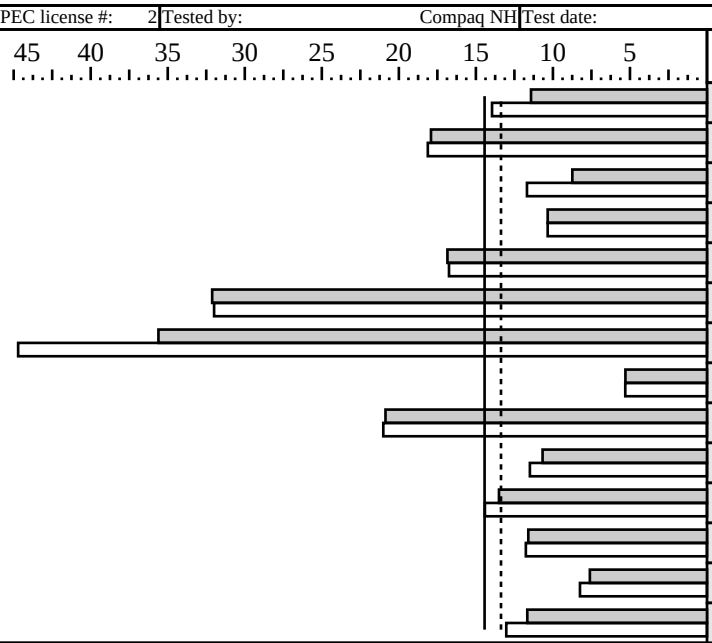
Compaq Computer Corporation
AlphaServer ES40 Model 6/833

SPECfp_rate2000 = 14.4

SPECfp_rate_base2000 = 13.4

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	325	11.4	2	266	14.0
171.swim	2	401	17.9	2	397	18.1
172.mgrid	2	478	8.74	2	357	11.7
173.applu	2	471	10.3	2	471	10.3
177.mesa	2	193	16.8	2	194	16.7
178.galgel	2	209	32.1	2	210	32.0
179.art	2	169	35.6	2	135	44.7
183.equake	2	570	5.29	2	569	5.30
187.facerec	2	211	20.9	2	210	21.0
188.ammp	2	478	10.7	2	444	11.5
189.lucas	2	344	13.5	2	322	14.4
191.fma3d	2	420	11.6	2	414	11.8
200.sixtrack	2	336	7.60	2	310	8.24
301.apsi	2	517	11.7	2	463	13.0

Hardware

CPU:	Alpha 21264B
CPU MHz:	833
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1 to 4
Parallel:	No
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	8MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	16GB
Disk Subsystem:	2x9GB BD0096349A
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: kf90 -O5 -fkapargs='-ur=1'
     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: kcc -fast -ckapargs='-arl=4' -xtaso_short
   187.facerec: f90 -fast -O5
      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/
```