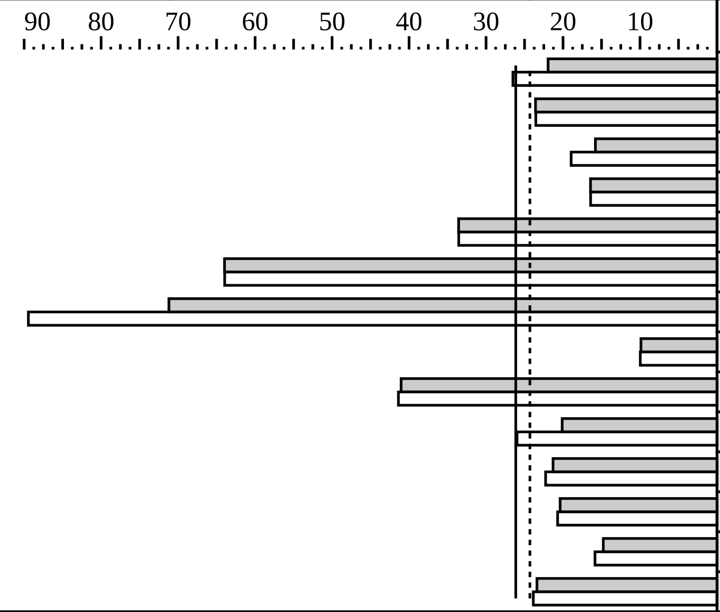
CFP2000 Result

Compaq Computer Corporation
AlphaServer ES40 Model 6/833

SPECfp_rate2000 = 26.1
SPECfp_rate_base2000 = 24.3

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	338	21.9	4	280	26.5
171.swim	4	610	23.6	4	611	23.5
172.mgrid	4	529	15.8	4	441	18.9
173.applu	4	593	16.4	4	593	16.4
177.mesa	4	194	33.6	4	194	33.5
178.galgel	4	210	64.0	4	210	63.9
179.art	4	169	71.2	4	135	89.4
183.equake	4	611	9.88	4	605	9.96
187.facerec	4	215	41.0	4	213	41.4
188.ammp	4	508	20.1	4	393	26.0
189.lucas	4	436	21.3	4	417	22.3
191.fma3d	4	478	20.4	4	471	20.7
200.sixtrack	4	346	14.8	4	322	15.9
301.apsi	4	516	23.4	4	506	23.9

Hardware

CPU:	Alpha 21264B
CPU MHz:	833
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 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:	Ethernet

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

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/
```