



# 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.quake	2	570	5.29	2	569	5.30
187.facerec	2	211	20.9	2	210	21.0
188.amp	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.quake: kcc -fast -ckapargs='-arl=4' -xtaso\_short  
 187.facerec: f90 -fast -O5  
 188.amp: 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/>