



# CFP2000 Result

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Compaq Computer Corporation  
AlphaServer ES40 Model 6/833

SPECfp2000 = NC  
SPECfp\_base2000 = NC

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

**SPEC has determined that this result was not in compliance with the SPEC CPU2000 run and reporting rules. Specifically, the result did not meet the 3 month availability requirement in the SPEC CPU2000 run rules due to a change in availability of the system.**

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1	2	3	4	5
168.wupwise	1600	NC	NC	NC	NC					
171.swim	3100	NC	NC	NC	NC					
172.mgrid	1800	NC	NC	NC	NC					
173.applu	2100	NC	NC	NC	NC					
177.mesa	1400	NC	NC	NC	NC					
178.galgel	2900	NC	NC	NC	NC					
179.art	2600	NC	NC	NC	NC					
183.quake	1300	NC	NC	NC	NC					
187.facerec	1900	NC	NC	NC	NC					
188.ammmp	2200	NC	NC	NC	NC					
189.lucas	2000	NC	NC	NC	NC					
191.fma3d	2100	NC	NC	NC	NC					
200.sixtrack	1100	NC	NC	NC	NC					
301.apsi	2600	NC	NC	NC	NC					

### Hardware

CPU: Alpha 21264A  
CPU MHz: 833  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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: 8GB  
Disk Subsystem: 1x DS-RZ1DA-VW 9GB  
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



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## Notes/Tuning Information (Continued)

```
178.galgel: kf90 -O4 -unroll 2 -ldxml
           RM_SOURCES = lapak.f90
           179.art: kcc -fast -O4 -ckapargs='-ar1=4 -ur=4' -unroll 10
183.quake: kcc -fast -ckapargs='-ar1=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
200.sixtrack: f90 -fast -O5 -transform_loops
           301.apsi: kf90 -O5 -transform_loops -unroll 8 -fkapargs='-ur=1'
```

Portability: galgel: -fixed