



CFP2000 Result

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Compaq Computer Corporation
AlphaServer ES40 Model 6/833

SPECfp_rate2000 = NC
SPECfp_rate_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.

5	4	3	2	1	Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
.....	168.wupwise	1	NC	NC	1	NC	NC
.....	171.swim	1	NC	NC	1	NC	NC
.....	172.mgrid	1	NC	NC	1	NC	NC
.....	173.applu	1	NC	NC	1	NC	NC
.....	177.mesa	1	NC	NC	1	NC	NC
.....	178.galgel	1	NC	NC	1	NC	NC
.....	179.art	1	NC	NC	1	NC	NC
.....	183.equake	1	NC	NC	1	NC	NC
.....	187.facerec	1	NC	NC	1	NC	NC
.....	188.amp	1	NC	NC	1	NC	NC
.....	189.lucas	1	NC	NC	1	NC	NC
.....	191.fma3d	1	NC	NC	1	NC	NC
.....	200.sixtrack	1	NC	NC	1	NC	NC
.....	301.apsi	1	NC	NC	1	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='-arl=4 -ur=4' -unroll 10
183.quake: 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
200.sixtrack: f90 -fast -O5 -transform_loops
           301.apsi: kf90 -O5 -transform_loops -unroll 8 -fkapargs='-ur=1'
```

Portability: galgel: -fixed