



CFP2000 Result

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Compaq Computer Corporation
AlphaServer GS80 Model 6/731

SPECfp_rate2000 = 5.16
SPECfp_rate_base2000 = 4.70

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	399	4.65	1	355	5.23
171.swim	1	390	9.22	1	395	9.10
172.mgrid	1	461	4.53	1	439	4.76
173.applu	1	746	3.26	1	610	3.99
177.mesa	1	258	6.29	1	244	6.65
178.galgel	1	705	4.77	1	434	7.75
179.art	1	214	14.1	1	178	16.9
183.quake	1	896	1.68	1	901	1.67
187.facerec	1	379	5.81	1	365	6.04
188.amp	1	759	3.36	1	659	3.87
189.lucas	1	432	5.37	1	434	5.35
191.fma3d	1	614	3.97	1	597	4.08
200.sixtrack	1	381	3.35	1	380	3.36
301.apsi	1	739	4.08	1	730	4.13

Hardware

CPU: Alpha 21264A
 CPU MHz: 731
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: Up to 8
 Parallel: No
 Primary Cache: 64KB(I)+64KB(D) on chip
 Secondary Cache: 4MB off chip
 L3 Cache: None
 Other Cache: None
 Memory: 4GB
 Disk Subsystem: mfs
 Other Hardware: None

Software

Operating System: Tru64 UNIX T5.1-9 (Release for GS160,GS320)
 Compiler: Compaq C T6.3-120-44A2I
 Compaq Fortran V5.3
 /usr/bin/f77: fort (not fort90)
 KAP Fortran V4.2
 KAP C 4.0
 File System: mfs
 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
 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.amp: cc -fast -O4 -xtaso_short
 189.lucas: kf90 -fast -O5 -fkapargs='-ur=1' -unroll 1
 191.fma3d: kf90 -O4



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Notes/Tuning Information (Continued)

```
200.sixtrack: f90 -fast -O5 -transform_loops  
301.apsi: kf90 -O5 -transform_loops -unroll 8 -fkapargs='-ur=1'
```

Portability: galgel: -fixed

Compaq C is posted at <http://www.unix.digital.com/dtk/>
The SPEC CPU2000 binaries were compiled under Unix V4.0F.

sysconfigtab settings:

```
max_proc_per_user = 4096  
max_threads_per_user = 4096  
per_proc_data_size = 21474836480  
max_per_proc_data_size = 21474836480  
per_proc_address_space = 21474836480  
max_per_proc_address_space = 21474836480
```