



CFP2000 Result

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Compaq Computer Corporation AlphaServer DS20 Model 6/500

SPECfp_rate2000 = 4.83
SPECfp_rate_base2000 = 4.67

SPEC license #: 2 | Tested by: Compaq NH | Test date: Jan-2001 | Hardware Avail: Dec-1998 | Software Avail: Dec-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	455	4.08	1	400	4.64
171.swim	1	356	10.1	1	356	10.1
172.mgrid	1	644	3.24	1	423	4.93
173.applu	1	525	4.64	1	526	4.63
177.mesa	1	323	5.03	1	320	5.08
178.galgel	1	349	9.64	1	520	6.46
179.art	1	343	8.79	1	291	10.3
183.quake	1	691	2.18	1	679	2.22
187.facerec	1	377	5.85	1	377	5.85
188.ammmp	1	776	3.29	1	729	3.50
189.lucas	1	427	5.43	1	418	5.55
191.fma3d	1	593	4.11	1	546	4.46
200.sixtrack	1	536	2.38	1	535	2.38
301.apsi	1	765	3.94	1	771	3.91

Hardware

CPU: Alpha 21264
CPU MHz: 500
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1 to 2
Parallel: No
Primary Cache: 64KB(I)+64KB(D) on chip
Secondary Cache: 4MB off chip
L3 Cache: None
Other Cache: None
Memory: 2GB
Disk Subsystem: 2x9GB (rz2dd-ls)
Other Hardware: None

Software

Operating System: Tru64 UNIX V5.1
Compiler: Libc from UNIX V5.1 Patch Kit 1
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: 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.ammmp: 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

Information on UNIX V5.1 Patches can be found at
<http://ftpl.service.digital.com/public/unix/v5.1/>