



CFP2000 Result

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Alpha Processor, Inc.
API UP2000 833 MHz

SPECfp2000 = 644

SPECfp_base2000 = 571

SPEC license #: 537 Tested by: API Test date: Jun-2000 Hardware Avail: Oct-2000 Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	287	557	261	614
171.swim	3100	316	980	304	1020
172.mgrid	1800	307	587	297	606
173.applu	2100	495	424	393	534
177.mesa	1400	204	687	194	721
178.galgel	2900	549	529	286	1014
179.art	2600	172	1509	134	1943
183.quake	1300	526	247	518	251
187.facerec	1900	240	793	194	977
188.ammp	2200	477	461	466	473
189.lucas	2000	293	682	301	663
191.fma3d	2100	395	532	367	572
200.sixtrack	1100	324	339	330	334
301.apsi	2600	544	478	523	497

Hardware

CPU: Alpha 21264A
CPU MHz: 833
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: 8MB off chip
L3 Cache: None
Other Cache: None
Memory: 512 MB (8x64MB)
Disk Subsystem: 1x9GB
Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V4.0F
UNIX V4.0F Patch Kit 1
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: ufs
System State: Multi-user

Notes/Tuning Information

Tested by Alpha Processor, Inc.

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.ammp: cc -fast -O4 -xtaso_short

189.lucas: kf90 -fast -O5 -fkapargs='-ur=1' -unroll 1

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Notes/Tuning Information (Continued)

```
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

Information on UNIX V4.0F Patch Kit 1 is available at
<http://ftpl.service.digital.com/public/unix/v4.0f/>