



CFP2000 Result

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Compaq Computer Corporation AlphaServer DS20 Model 6/500

SPECfp2000 = 422
SPECfp_base2000 = 383

SPEC license #: 2 Tested by: Compaq NH Test date: Nov-1999 Hardware Avail: Dec-1998 Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	300 600 900 1200			
168.wupwise	1600	437	366	397	403	[Bar chart showing ratio 403]			
171.swim	3100	331	937	334	927	[Bar chart showing ratio 927]			
172.mgrid	1800	441	408	430	419	[Bar chart showing ratio 419]			
173.applu	2100	650	323	500	420	[Bar chart showing ratio 420]			
177.mesa	1400	362	386	382	366	[Bar chart showing ratio 366]			
178.galgel	2900	921	315	534	543	[Bar chart showing ratio 543]			
179.art	2600	343	759	289	900	[Bar chart showing ratio 900]			
183.earthquake	1300	666	195	668	194	[Bar chart showing ratio 194]			
187.facerec	1900	417	456	350	544	[Bar chart showing ratio 544]			
188.ammmp	2200	769	286	719	306	[Bar chart showing ratio 306]			
189.lucas	2000	384	520	395	507	[Bar chart showing ratio 507]			
191.fma3d	2100	536	392	507	414	[Bar chart showing ratio 414]			
200.sixtrack	1100	539	204	542	203	[Bar chart showing ratio 203]			
301.apsi	2600	772	337	751	346	[Bar chart showing ratio 346]			

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 (16x128MB)
Disk Subsystem: 3x4GB
Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V4.0F
Compiler: Compaq C X6.2-259-449AT
Compaq Fortran T5.3 (ft2+)
/usr/bin/f77: fort (not fort90)
KAP Fortran V4.2
KAP C 4.0
File System: ufs
System State: Multi-user

Notes/Tuning Information

Baseline C: cc -v -arch ev6 -fast -O4 ONESTEP
Fortran: kf90 -v -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.earthquake: 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)

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

Portability: galgel: -fixed

The C compiler used here will be available to customers as V6.3 at <http://www.unix.digital.com/dtk/> . It will be available as an ADK (Advanced Developers' Kit) in February, 2000 and as the final version in July, 2000.