



CFP2000 Result

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Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECfp2000 = 582
SPECfp_base2000 = 535

SPEC license #: 2 Tested by: Compaq NH Test date: Aug-2001 Hardware Avail: Mar-2000 Software Avail: May-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	355	451	299	535	
171.swim	3100	313	991	313	992	
172.mgrid	1800	508	354	338	533	
173.applu	2100	419	502	418	503	
177.mesa	1400	263	532	264	530	
178.galgel	2900	262	1107	262	1106	
179.art	2600	196	1329	159	1631	
183.earthquake	1300	522	249	490	265	
187.facerec	1900	253	751	243	782	
188.ammpp	2200	559	394	477	461	
189.lucas	2000	340	588	326	614	
191.fma3d	2100	435	483	428	490	
200.sixtrack	1100	404	273	375	294	
301.apsi	2600	588	442	581	448	

Hardware

CPU: Alpha 21264A
 CPU MHz: 667
 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: 512MB (16x32MB)
 Disk Subsystem: 1x18GB
 Other Hardware: None

Software

Operating System: Tru64 UNIX V5.1
 UNIX V5.1 Patch Kit 2
 Compiler: Compaq C T6.4-208-46B2F
 Compaq Fortran V5.4A-1472-46B2F
 Compaq Fortran 77 V5.4-196-46B2F
 KAP Fortran 77 V4.1 980926
 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: kf77 -fast -O4 -pipeline -unroll 2
 171.swim: f90 -fast -O5
 172.mgrid: kf77 -O5 -transform_loops -tune ev6 -unroll 8
 173.applu: f90 -fast -O5
 177.mesa: cc -fast -O4
 178.galgel: f90 -fast -O5
 179.art: kcc -fast -O4 -ckapargs='-arl=4 -ur=4' -unroll 10
 183.earthquake: cc -fast -xtaso_short
 187.facerec: f90 -fast -O4
 188.ammpp: cc -fast -O4 -xtaso_short
 189.lucas: kf90 -O5 -fkapargs='-ur=1'
 191.fma3d: kf90 -O4
 200.sixtrack: f90 -fast -O5 -assume accuracy_sensitive



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Notes/Tuning Information (Continued)

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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/>