



CFP2000 Result

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Compaq Computer Corporation AlphaServer DS10 6/600

SPECfp2000 = 411
SPECfp_base2000 = 377

SPEC license #: 2 Tested by: Compaq NH Test date: Jun-2000 Hardware Avail: Oct-2000 Software Avail: Jul-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	378	424	355	450	
171.swim	3100	481	645	488	635	
172.mgrid	1800	485	371	441	408	
173.applu	2100	676	311	551	381	
177.mesa	1400	326	430	297	471	
178.galgel	2900	883	329	564	514	
179.art	2600	472	551	413	629	
183.earthquake	1300	642	203	625	208	
187.facerec	1900	460	413	388	489	
188.ammpp	2200	744	296	769	286	
189.lucas	2000	386	518	395	506	
191.fma3d	2100	547	384	526	399	
200.sixtrack	1100	440	250	443	248	
301.apsi	2600	673	386	659	395	

Hardware

CPU: Alpha 21264A
 CPU MHz: 616
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: No
 Primary Cache: 64KB(I)+64KB(D) on chip
 Secondary Cache: 2MB off chip
 L3 Cache: None
 Other Cache: None
 Memory: 1GB
 Disk Subsystem: 1x9GB RZ2DD-LS
 Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V4.0G
 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: AdvFS
 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.earthquake: kcc -fast -ckapargs='-arl=4' -xtaso_short
 187.facerec: f90 -fast -O4
 188.ammpp: 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