



CFP2000 Result

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Compaq Computer Corporation AlphaServer ES40 Model 6/667

SPECfp2000 = 562
SPECfp_base2000 = 500

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	349	458	307	522	
171.swim	3100	287	1079	297	1045	
172.mgrid	1800	343	525	333	541	
173.applu	2100	543	386	418	503	
177.mesa	1400	279	502	279	502	
178.galgel	2900	652	445	351	826	
179.art	2600	210	1238	166	1564	
183.earthquake	1300	591	220	594	219	
187.facerec	1900	281	677	236	804	
188.ammpp	2200	543	405	476	462	
189.lucas	2000	313	639	322	621	
191.fma3d	2100	445	472	417	504	
200.sixtrack	1100	403	273	404	273	
301.apsi	2600	584	445	557	467	

Hardware

CPU: Alpha 21264A
CPU MHz: 667
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1 to 4
Parallel: No
Primary Cache: 64KB(I)+64KB(D) on chip
Secondary Cache: 8MB off chip
L3 Cache: None
Other Cache: None
Memory: 4GB (32x128MB)
Disk Subsystem: 1x4GB 1x9GB
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.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

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.