SPEC CFP95 Results

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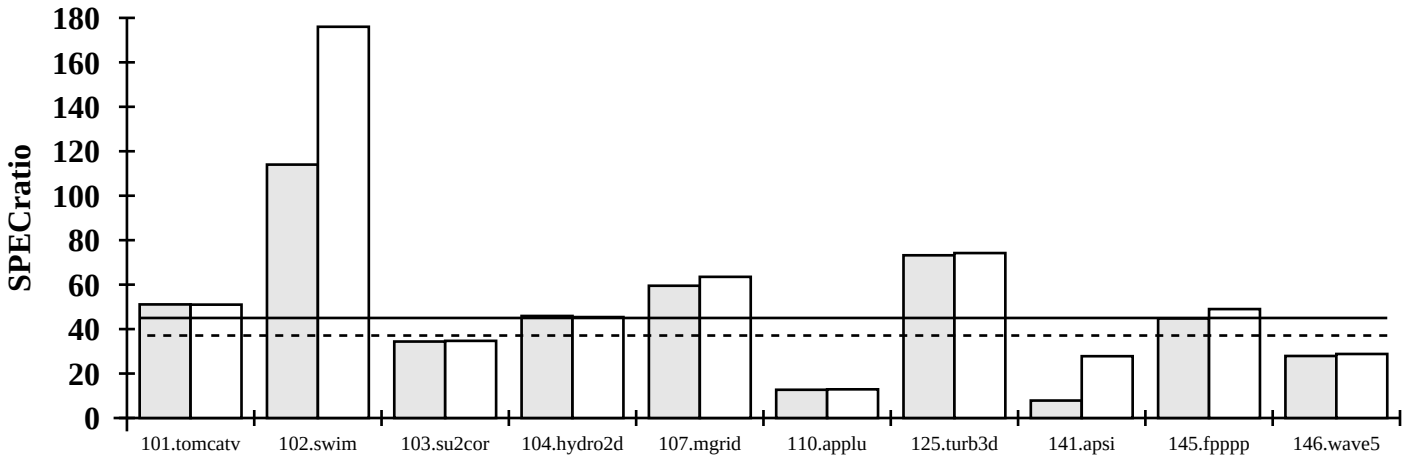
Digital Equipment Corp.
AlphaServer 8400 5/625

SPECfp95 = 45.0

SPECfp_base95 = 37.1

SPEC license # 2	Tested By: Digital NH	Test Date: Sep-97	Hardware Avail: Nov-97	Software Avail: Dec-97



Hardware/Software Configuration for:
AlphaServer 8400 5/625

Hardware

Model Name:	AlphaServer 8400 5/625
CPU:	612 MHz 21164
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB on chip
Other Cache:	4MB
Memory:	8GB (4x2GB)
Disk Subsystem:	4x4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0D-11
Compiler:	Fortran 77 T5.0-137-3670 KAPF V3.1a 970519 DFARTL 373
File System:	UFS
System State:	Multi User

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	72.4	51.1	73	51.0
102.swim	8600	75.4	114	49	176
103.su2cor	1400	40.7	34.4	40	34.7
104.hydro2d	2400	52.3	45.9	53	45.4
107.mgrid	2500	42.0	59.5	39	63.5
110.applu	2200	173	12.7	170	12.9
125.turb3d	4100	56.0	73.2	55	74.2
141.apsi	2100	267	7.85	76	27.8
145.fpppp	9600	215	44.8	196	49.0
146.wave5	3000	108	27.9	104	28.8
SPECfp_base95 (G. Mean)			37.1		
		SPECfp95 (G. Mean)			45.0

Notes/Tuning Information

```
Compiler: kf77

Baseline: -granularity byte -arch ev56 -fkapargs='-ipa_optimize=2 -mc=1500'
Peak:
tomcatv: -transform_loops -fkapargs='-ag=ab -fuselevel=2 -conc'
swim:    -O5 -transform_loops -fkapargs='-tune=ev4 -ag=ab -ur=1 -conc'
su2cor:  -O5 -transform_loops -speculate all -fkapargs='-tune=ev4 -ag=ab -conc -ur=1'
hydro2d: -O5 -transform_loops -inline speed -fkapargs='-ag=ab -ur=8 -ur2=400 -conc'
mgrid:   -O5 -speculate all -fkapargs='-ipa -ag=ab -conc -fuselevel=1'
applu:   -O5 -fkapargs='-ag=ab -conc -ipa_optimize=2'
turb3d:  -O5 -fkapargs='-conc -ipa_optimize=2 -ur=1'
apsi:    -O5 -transform_loops -fkapargs='-ur=4 -ur2=1000 -ipa_optimize=2'
fpppp:   -O2 -om -fkapargs='-so=0 -o=0'
wave5:   -speculate all -transform_loops -fkapargs='-conc -ag=a -ur=5 -ur2=600'
Fortran invokes cc.alt driver via 'setenv DECFORT_CC cc.alt'
```

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-- Prepared By: --