SPEC CFP95 Results

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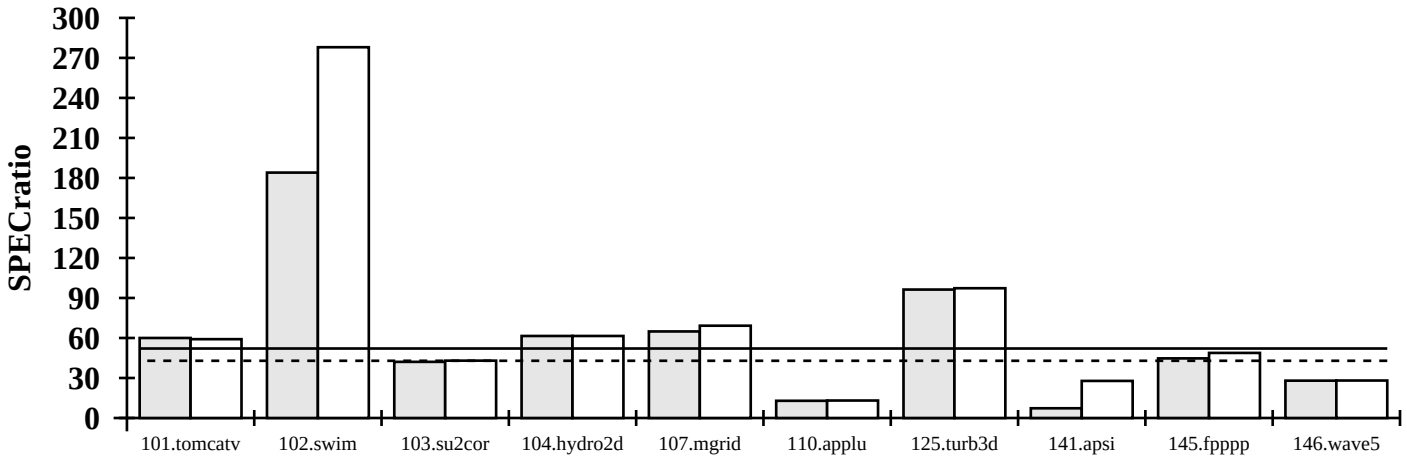
Digital Equipment Corp.
AlphaServer 8400 5/625

SPECfp95 = 52.1

SPECfp_base95 = 42.9

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):	6
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	61.7	60.0	63	59.1
102.swim	8600	46.8	184	31	278
103.su2cor	1400	33.3	42.1	33	43.0
104.hydro2d	2400	39.0	61.5	39	61.5
107.mgrid	2500	38.5	64.9	36	69.2
110.applu	2200	170	12.9	168	13.1
125.turb3d	4100	42.6	96.3	42	97.3
141.apsi	2100	287	7.30	75	27.8
145.fpppp	9600	215	44.7	197	48.8
146.wave5	3000	107	28.0	107	28.1
SPECfp_base95 (G. Mean)			42.9		
		SPECfp95 (G. Mean)			52.1

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: --