SPEC CFP95 Results

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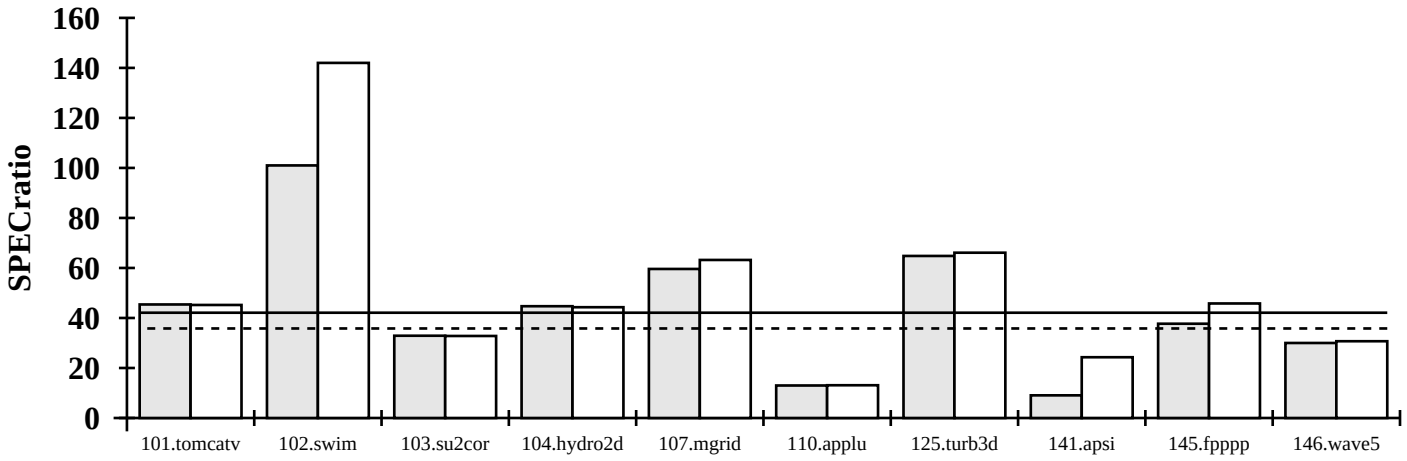
Digital Equipment Corp.
AlphaServer 4100 5/533

SPECfp95 = 42.1

SPECfp_base95 = 35.8

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



Hardware/Software Configuration for:
AlphaServer 4100 5/533

Hardware

Model Name:	AlphaServer 4100 5/533
CPU:	533 MHz 21164
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	384MB
Disk Subsystem:	1 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4.0D-3
Compiler:	Fortran 77 T5.0-137-3670 KAPF V3.1a 970519
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	81.5	45.4	82	45.2
102.swim	8600	85.4	101	60	142
103.su2cor	1400	42.6	32.9	43	32.8
104.hydro2d	2400	53.7	44.7	54	44.3
107.mgrid	2500	42.0	59.6	40	63.2
110.applu	2200	170	13.0	168	13.1
125.turb3d	4100	63.3	64.8	62	66.1
141.apsi	2100	232	9.06	86	24.3
145.fpppp	9600	255	37.7	209	45.8
146.wave5	3000	99.8	30.0	98	30.7
SPECfp_base95 (G. Mean)			35.8		
		SPECfp95 (G. Mean)			42.1

Notes/Tuning Information

```
Compiler: kf77

Baseline: -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: --