SPEC CFP95 Results

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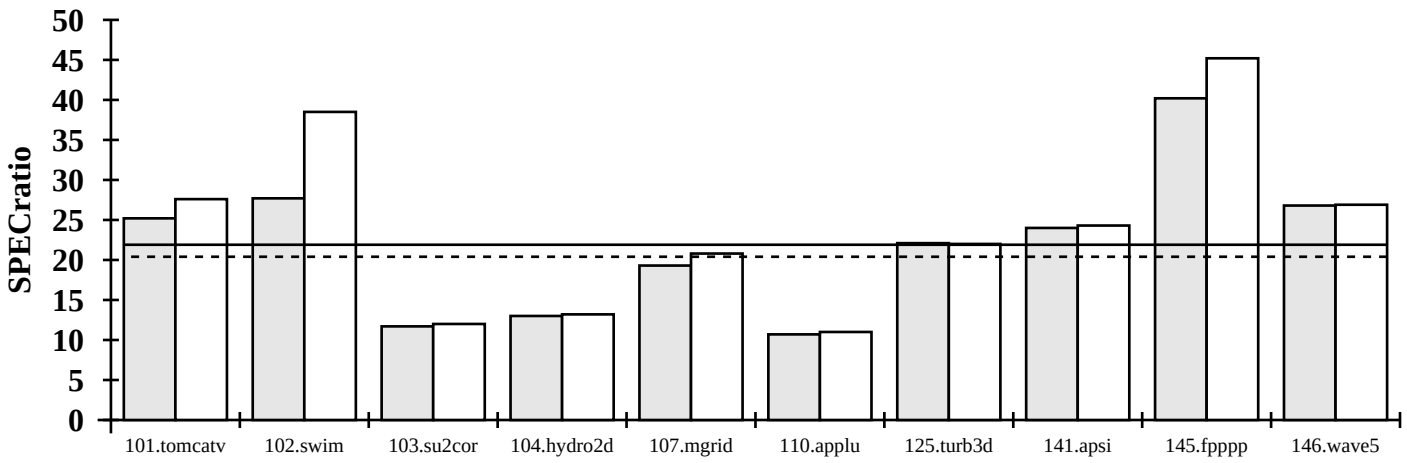
Digital Equipment Corp.
AlphaServer 4100 5/533

SPECfp95 = 21.9

SPECfp_base95 = 20.4

SPEC license # 2	Tested By: Digital NH	Test Date: Oct-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):	1
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	384MB
Disk Subsystem:	2 x 4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4.0D-2
Compiler:	Fortran 77 V5.0-138-3678F 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	147	25.2	134	27.6
102.swim	8600	311	27.7	223	38.5
103.su2cor	1400	119	11.7	117	12.0
104.hydro2d	2400	185	13.0	181	13.2
107.mgrid	2500	130	19.3	120	20.8
110.applu	2200	206	10.7	199	11.0
125.turb3d	4100	185	22.1	186	22.0
141.apsi	2100	87.7	24.0	86	24.3
145.fpppp	9600	239	40.2	212	45.2
146.wave5	3000	112	26.8	112	26.9
SPECfp_base95 (G. Mean)			20.4		
			SPECfp95 (G. Mean)		21.9

Notes/Tuning Information

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Compiler invocation: kf77
Base switches: -O5

Peak switches:
tomcatv: -O5 -fkapargs='-ag=ab -fuselevel=2'
swim:    -O5 -transform_loops -fkapargs='-tune=ev4 -fuselevel=2 -ag=ab -r=1 -ur=2 -ur2=600 '
su2cor:  -O5 -speculate all -transform_loops -fkapargs='-ur=4'
hydro2d: -O5 -inline speed -fkapargs='-tune=ev4 -ur=8 -ur2=400 -ur3=10'
mgrid:   -O5 -speculate all -fkapargs='-fuselevel=1 -ipa'
applu:   -O5 -fkapargs='-tune=ev4  -fuse -ag=a -ur3=10'
turb3d:  -O5 -fkapargs='-fuse -fuselevel=2 -ipa'
apsi:    -O5 -transform_loops -fkapargs='-ag=ab -ur=4 -ur2=800 -ipa_optimize=2'
fpppp:   -O2 -om -fkapargs='-so=0 -o=0'
wave5:   -O5 -speculate all -fkapargs='-ipa -ag=a -ur=5 -ur2=600'
om is invoked via cc.alt driver (setenv DECFORT_CC cc.alt)
```

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-- Prepared By: --