SPEC CFP95 Results

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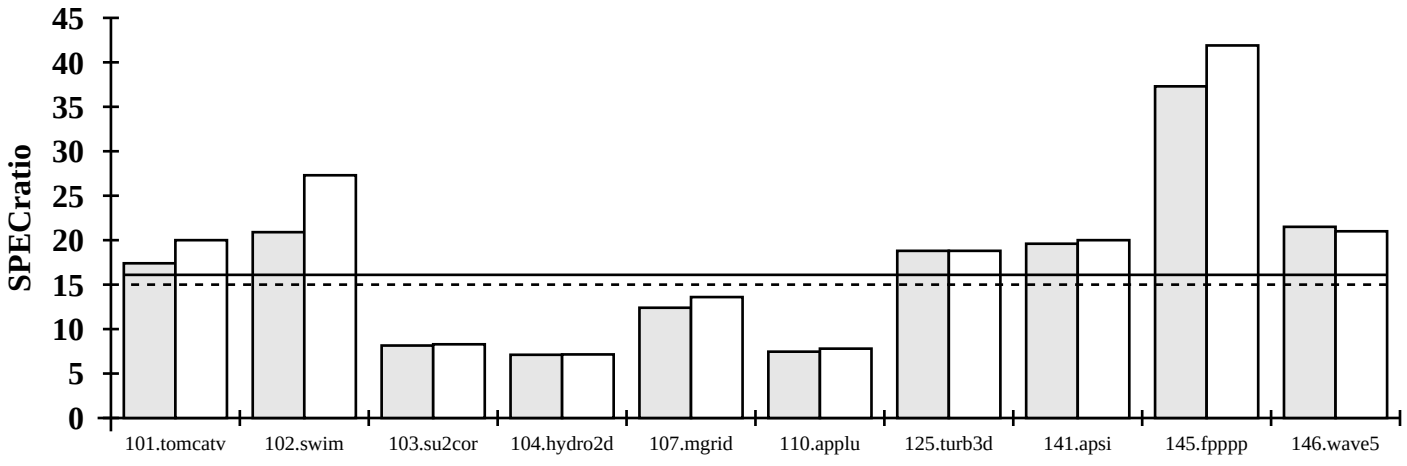
Digital Equipment Corp.
AlphaServer 800 5/500

SPECfp95 = 16.1

SPECfp_base95 = 15.0

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



Hardware/Software Configuration for:
AlphaServer 800 5/500

Hardware

Model Name:	AlphaServer 800 5/500
CPU:	500 MHz 21164
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	2MB
Memory:	1024MB
Disk Subsystem:	1 x 2GB 1X4GB
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	213	17.4	185	20.0
102.swim	8600	411	20.9	315	27.3
103.su2cor	1400	172	8.15	169	8.29
104.hydro2d	2400	338	7.11	335	7.15
107.mgrid	2500	201	12.4	184	13.6
110.applu	2200	295	7.46	282	7.80
125.turb3d	4100	218	18.8	218	18.8
141.apsi	2100	107	19.6	105	20.0
145.fpppp	9600	257	37.3	229	41.9
146.wave5	3000	139	21.5	143	21.0
SPECfp_base95 (G. Mean)			15.0		
		SPECfp95 (G. Mean)			16.1

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: --