SPEC CFP95 Results

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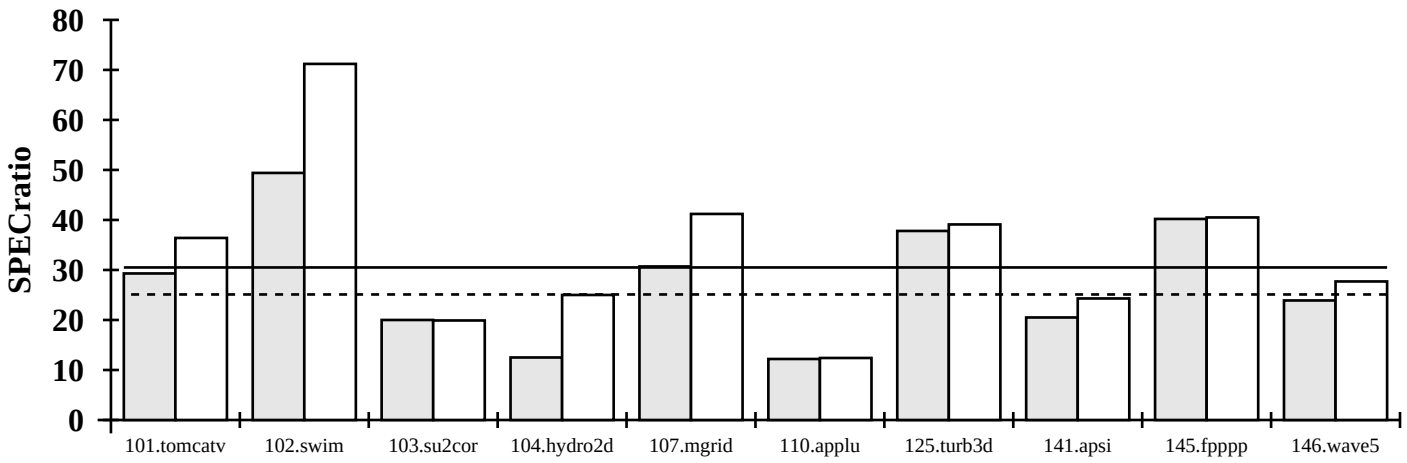
Digital Equipment Corp.
AlphaServer 4000 5/533

SPECfp95 = 30.5

SPECfp_base95 = 25.1

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



Hardware/Software Configuration for:
AlphaServer 4000 5/533

Hardware

Model Name:	AlphaServer 4000 5/533
CPU:	533 MHz 21164
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	256MB
Disk Subsystem:	2 x 4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4.0D-2
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	126	29.3	102	36.4
102.swim	8600	174	49.4	121	71.2
103.su2cor	1400	70.2	20.0	70	19.9
104.hydro2d	2400	192	12.5	96	25.0
107.mgrid	2500	81.4	30.7	61	41.2
110.applu	2200	181	12.2	178	12.4
125.turb3d	4100	108	37.8	105	39.1
141.apsi	2100	103	20.5	87	24.3
145.fpppp	9600	239	40.2	237	40.5
146.wave5	3000	125	23.9	108	27.7
SPECfp_base95 (G. Mean)			25.1		
		SPECfp95 (G. Mean)			30.5

Notes/Tuning Information

```
Compiler: kf77

Baseline: -fkapargs='-ipa_optimize=2 -mc=10000'
Peak:
tomcatv: -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 -mc=5000 -ur=1'
hydro2d: -O5 -transform_loops -inline speed -fkapargs='-ag=ab -ur=8 -ur2=400 -conc'
mgrid: -O5 -transform_loops -speculate all -fkapargs='-ipa -ag=ab -conc -fuselevel=1'
applu: -O5 -fkapargs='-ag=ab -mc=10000 -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 -fkapargs='-so=0 -o=0'
wave5: -speculate all -fkapargs='-conc -ag=a -ur=5 -ur2=600'
```

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-- Prepared By: --