SPEC CFP95 Results

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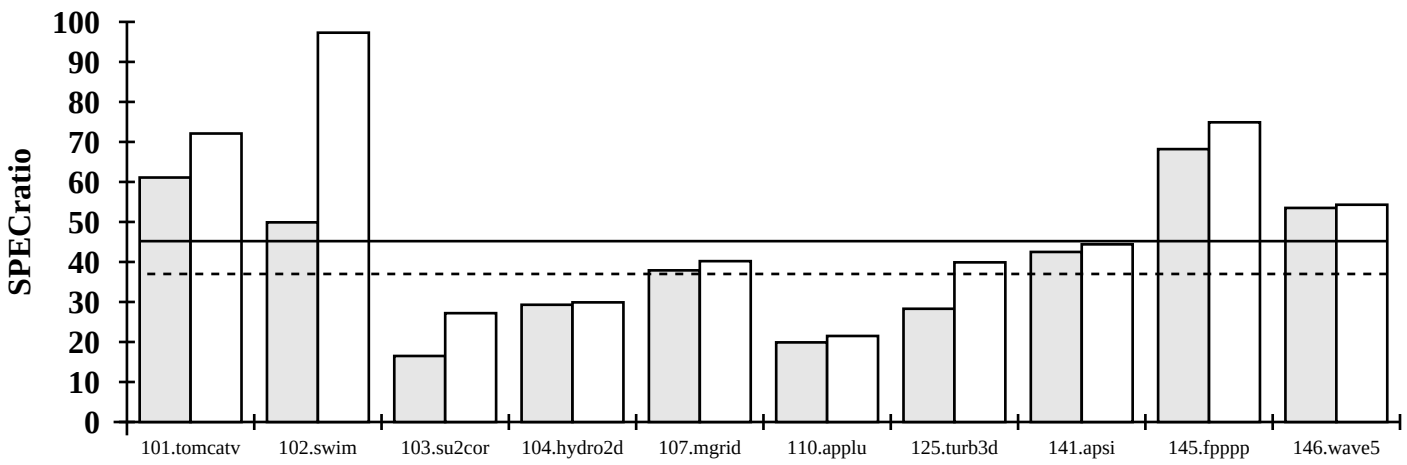
Compaq Computer Corporation
Compaq AlphaServer GS140 6/525

SPECfp95 = 45.2

SPECfp_base95 = 37.0

SPEC license # 2	Tested By: Digital NH	Test Date: Sep-98	Hardware Avail: Nov-98	Software Avail: Jan-99



Hardware/Software Configuration for:
Compaq AlphaServer GS140 6/525

Hardware

Model Name:	Compaq AlphaServer GS140 6/525
CPU:	525 MHz 21264
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB
Other Cache:	none
Memory:	8GB (4x2GB)
Disk Subsystem:	3x4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0E-7
Compiler:	f77 and f90 with GEM 4088L kf77 and kf90 4.1T 980815 DFARTL 379
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	60.6	61.1	51	72.1
102.swim	8600	172	49.9	88	97.3
103.su2cor	1400	85.0	16.5	51	27.2
104.hydro2d	2400	81.9	29.3	80	29.9
107.mgrid	2500	65.9	37.9	62	40.2
110.applu	2200	111	19.9	102	21.5
125.turb3d	4100	145	28.3	103	39.9
141.apsi	2100	49.4	42.5	47	44.4
145.fpppp	9600	141	68.2	128	74.9
146.wave5	3000	56.1	53.5	55	54.3
SPECfp_base95 (G. Mean)			37.0		
		SPECfp95 (G. Mean)			45.2

Notes/Tuning Information

```
Baseline: kf77 -arch ev6 -O5  -fkapargs='-ur=1'

Peak: all use -arch ev6, plus:
tomcatv: kf77 -O4                    -fkapargs='-ag=a -fuselevel=2 -ur=1'
swim:    kf77 -O5 -transform_loops -fkapargs='-ag=a -fuselevel=2 -ur=1'
hydro2d: kf77 -O5 -inline speed    -fkapargs='-ur=4 -ur2=400 -ur3=10'
mgrid:   kf77 -O5 -speculate all   -fkapargs='-fuselevel=2 -ur=1'
applu:   kf77 -O5 -transform_loops -fkapargs='-ag=a -fuse -ur=1'
apsi:    kf90 -O5 -transform_loops -fkapargs='-ag=ab -ur=1 -ipa_optimize=2'
fpppp:   kf77 -O2                  -fkapargs='-so=0 -o=0'
wave5:   kf77 -O5 -speculate all   -fkapargs='-ag=a -ipa -ur=5 -ur2=600'
su2cor:  kf90 -O5 -transform_loops -speculate all -fkapargs='-ag=abfg -ur=4'
turb3d:  kf90 -O3 -inline speed -pipeline -fkapargs='-ag=a -fuselevel=1 -r=1
.                                    -o=4 -unroll=10 -unroll2=560 -unroll3=50'
```

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-- Prepared By: --