SPEC CFP95 Results

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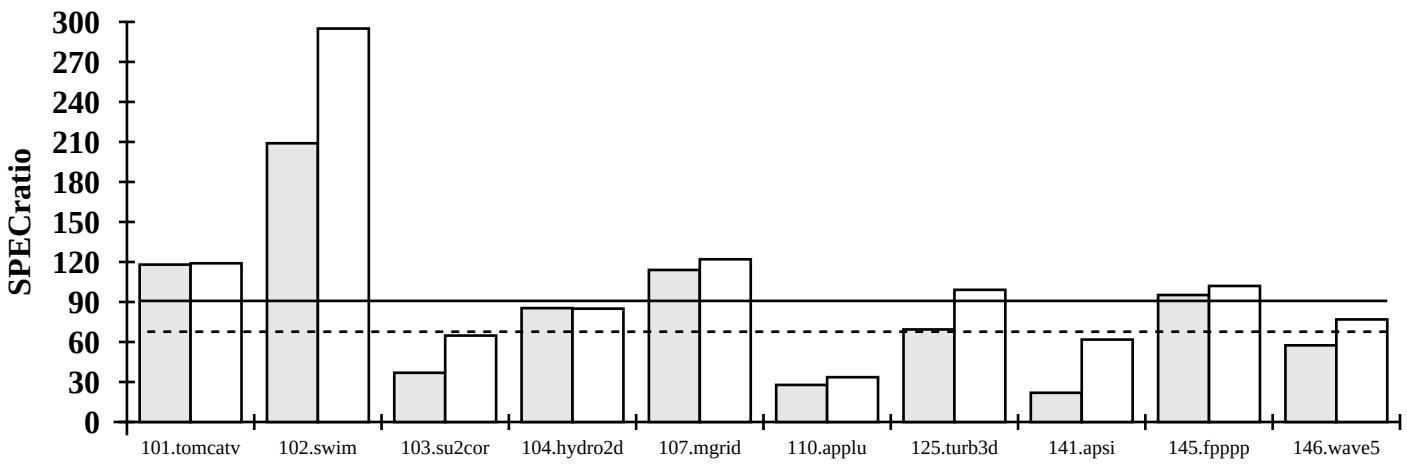
Compaq Computer Corporation
AlphaServer GS140 Model 6/700

SPECfp95 = 90.8

SPECfp_base95 = 67.7

SPEC license # 2	Tested By: Compaq NH	Test Date: Dec-99	Hardware Avail: Nov-99	Software Avail: Dec-99



Hardware/Software Configuration for:
AlphaServer GS140 Model 6/700

Hardware

Model Name:	AlphaServer GS140 Model 6/700
CPU:	700 MHz 21264A
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	8MB
Other Cache:	none
Memory:	8GB (4x2GB)
Disk Subsystem:	3x4GB
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX V4.0F + Patches 0087.00, 0071.00 (from V4.0F Patch kit 2)
Compiler:	Compaq Fortran V5.3 KAP Fortran V4.2
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	31.4	118	31	119
102.swim	8600	41.2	209	29	295
103.su2cor	1400	37.9	36.9	22	64.8
104.hydro2d	2400	28.1	85.4	28	85.0
107.mgrid	2500	22.0	114	21	122
110.applu	2200	79.2	27.8	66	33.6
125.turb3d	4100	59.1	69.4	41	99.1
141.apsi	2100	96.1	21.9	34	61.8
145.fpppp	9600	101	95.2	94	102
146.wave5	3000	52.2	57.5	39	76.9
SPECfp_base95 (G. Mean)			67.7		
		SPECfp95 (G. Mean)			90.8

Notes/Tuning Information

```
Compiler: kf90 unless noted otherwise
Baseline: -O5 -fkapargs='-ipa_optimize=2 -mc=1575 -ur=1'
tomcatv:  -g3 -O5 -fkapargs='-ipa_optimize=2 -mc=1575 -ur=1'
swim:     -g3 -O5 -fkapargs='-ag=a -ur=1 -conc'
su2cor:   -g3 -O5 -transform_loops -unroll 8 -speculate all
.                 -fkapargs='-ag=abfg -conc -ur=1'
hydro2d:  -g3 -O5 -transform_loops -inline speed
.                 -fkapargs='-ag=ab -ur=1 -conc'
mgrid:    -g3 -O5 -speculate all -fkapargs='-ipa -ur=1 -ag=ab -conc -fuselevel=1'
applu:    -g3 -transform_loops -fkapargs='-ag=a -conc -ipa_optimize=2'
turb3d:   -g3 -O5 -fkapargs='-ag=ab -conc -ipa_optimize=2 '
apsi:     -g3 -O5 -automatic
.                 -fkapargs=' -fuse -o=4 -interleave -ur=8 -ur2=60 '
fpppp:    -g3 -O2 -transform_loops -fkapargs='-so=0 -o=0'
wave5:   kf77 -g3 -O5 -unroll 5 -fkapargs='-ag=a -ur=7 -ur3=10 -tune=ev6'
```

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-- Prepared By: --