SPEC CFP95 Results

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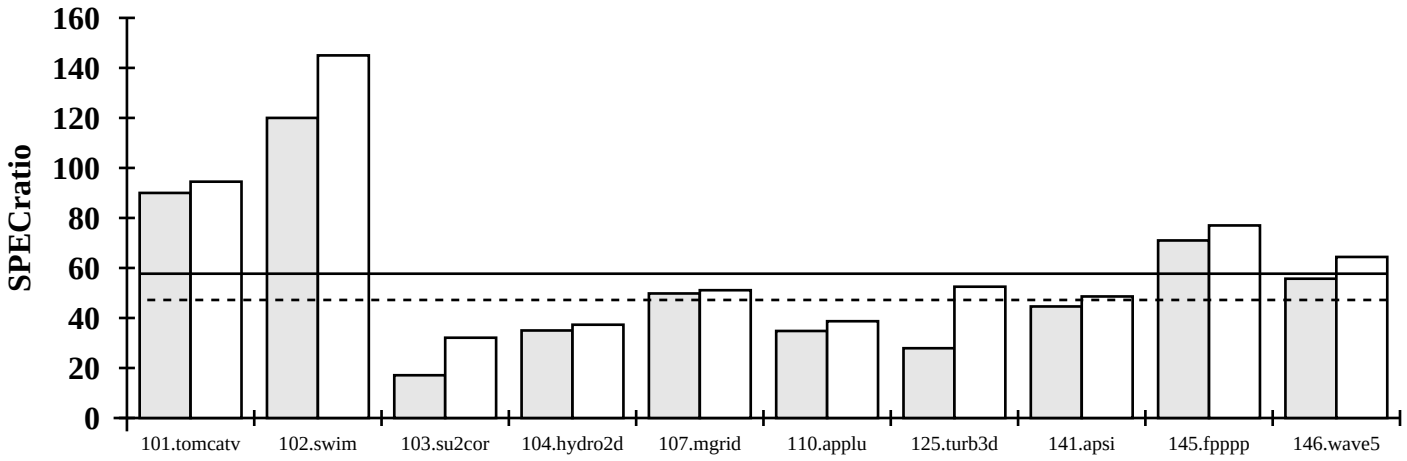
Compaq Computer Corporation AlphaServer ES40

SPECfp95 = 57.7

SPECfp_base95 = 47.2

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



Hardware/Software Configuration for:
AlphaServer ES40

Hardware

Model Name:	AlphaServer ES40
CPU:	500 MHz Alpha 21264
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB (I+D) off chip
Other Cache:	none
Memory:	8GB
Disk Subsystem:	2x9GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0F-4
Compiler:	Fortran V5.2 KAP Fortran V4.1
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	41.1	90.0	39	94.5
102.swim	8600	71.8	120	59	145
103.su2cor	1400	81.8	17.1	44	32.1
104.hydro2d	2400	68.6	35.0	64	37.3
107.mgrid	2500	50.2	49.8	49	51.1
110.applu	2200	63.2	34.8	57	38.7
125.turb3d	4100	147	27.9	78	52.5
141.apsi	2100	47.1	44.6	43	48.6
145.fpppp	9600	135	71.0	125	77.0
146.wave5	3000	53.9	55.7	47	64.4
SPECfp_base95 (G. Mean)			47.2		
		SPECfp95 (G. Mean)			57.7

Notes/Tuning Information

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

tomcatv: kf90 -arch ev6 -O5 -inline none
.        -fkapargs='-fuselevel=2 -ur=9 -ur2=460 -ur3=30 '
swim:    kf77 -arch ev6 -O5 -fkapargs='-ag=a -fuselevel=2 -ur=1'
su2cor:  kf90 -arch ev6 -O3 -transform_loops -automatic
.        -fkapargs=' -ag=abfg -r=0 -nointerleave -ur2=260 '
hydro2d: kf90 -arch ev6 -O5 -fkapargs='-fuselevel=2 -ur2=860'
mgrid:   kf77 -arch ev6 -O5 -speculate all -fkapargs='-fuselevel=2 -ur=1'
applu:   kf90 -arch ev6 -transform_loops -automatic -fkapargs=' -r=2 -o=0 -ur2=60 '
turb3d:  kf90 -arch ev6 -O5 -speculate all -automatic
.        -fkapargs=' -ag=a -o=1 -ur2=760 -ur3=100 '
apsi:    kf90 -arch ev6 -O2 -pipeline -automatic
.        -fkapargs=' -fuselevel=2 -ur=8 -ur2=60 '
fpppp:   kf90 -arch ev6 -O2 -transform_loops -fkapargs='-so=0 -o=0'
wave5:   kf90 -arch ev6 -O5 -transform_loops -unroll 15
.        -fkapargs='-r=1 -o=2 -ur2=260 -ur3=30'
```

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-- Prepared By: --