SPEC CFP95 Results

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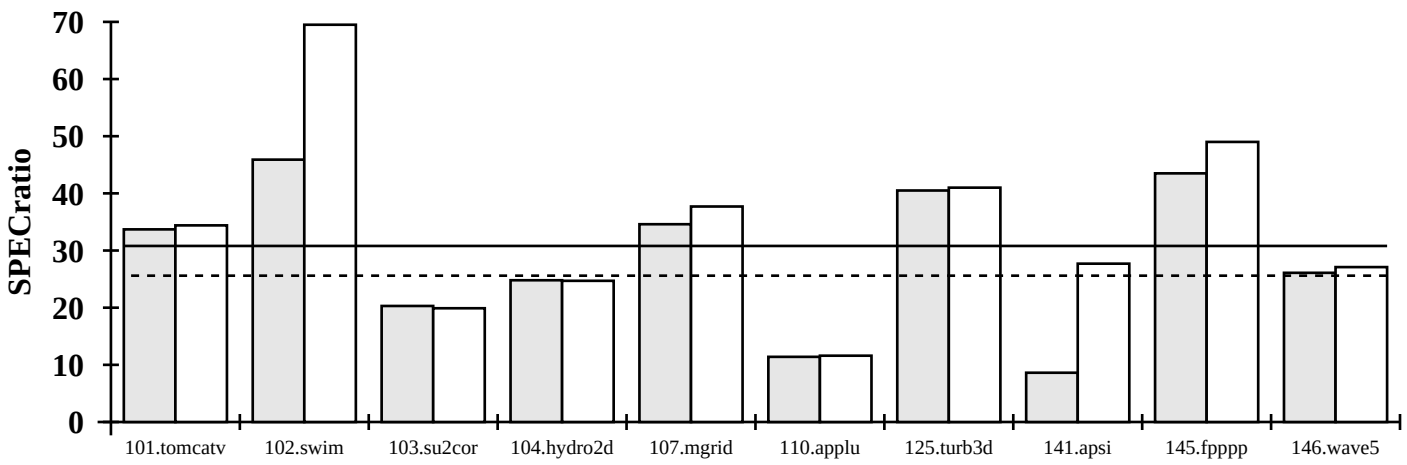
Digital Equipment Corp.
AlphaServer 8400 5/625

SPECfp95 = 30.8

SPECfp_base95 = 25.6

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



Hardware/Software Configuration for:
AlphaServer 8400 5/625

Hardware

Model Name:	AlphaServer 8400 5/625
CPU:	612 MHz 21164
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB on chip
Other Cache:	4MB
Memory:	4GB (2x2GB)
Disk Subsystem:	4x4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0D-11
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	110	33.7	108	34.4
102.swim	8600	187	45.9	124	69.5
103.su2cor	1400	69.1	20.3	70	19.9
104.hydro2d	2400	96.9	24.8	97	24.7
107.mgrid	2500	72.3	34.6	66	37.7
110.applu	2200	193	11.4	190	11.6
125.turb3d	4100	101	40.5	100	41.0
141.apsi	2100	244	8.62	76	27.7
145.fpppp	9600	221	43.5	196	49.0
146.wave5	3000	115	26.1	111	27.1
SPECfp_base95 (G. Mean)			25.6		
			SPECfp95 (G. Mean)		30.8

Notes/Tuning Information

```
Compiler: kf77

Baseline: -granularity byte -arch ev56 -fkapargs='-ipa_optimize=2 -mc=1500'
Peak:
tomcatv: -transform_loops -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 -conc -ur=1'
hydro2d: -O5 -transform_loops -inline speed -fkapargs='-ag=ab -ur=8 -ur2=400 -conc'
mgrid:   -O5 -speculate all -fkapargs='-ipa -ag=ab -conc -fuselevel=1'
applu:   -O5 -fkapargs='-ag=ab -conc -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 -om -fkapargs='-so=0 -o=0'
wave5:   -speculate all -transform_loops -fkapargs='-conc -ag=a -ur=5 -ur2=600'
Fortran invokes cc.alt driver via 'setenv DECFORT_CC cc.alt'
```

For More Information Contact:
SPEC
10754 Ambassador Drive, Suite 201
Manassas, VA 20109
(703) 331-0180
info@specbench.org
http://www.specbench.org/

-- Prepared By: --