SPEC CFP95 Results

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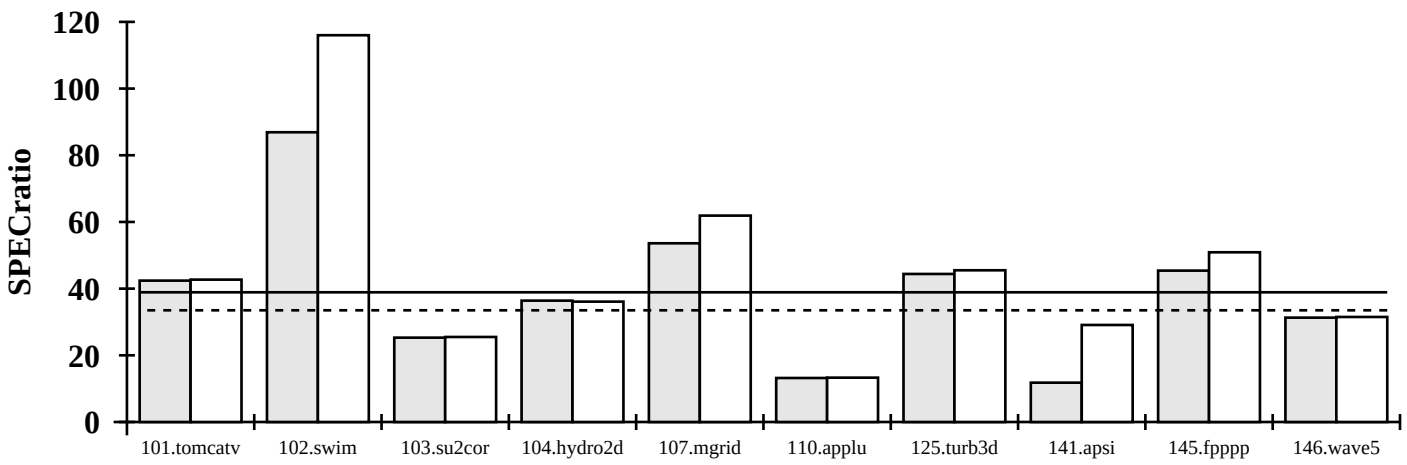
Digital Equipment Corp.
AlphaServer 4000 5/600

SPECfp95 = 38.9

SPECfp_base95 = 33.5

SPEC license # 2	Tested By: Digital NH	Test Date: Oct-97	Hardware Avail: Apr-98	Software Avail: Dec-97



Hardware/Software Configuration for:
AlphaServer 4000 5/600

Hardware

Model Name:	AlphaServer 4000 5/600
CPU:	600 MHz 21164
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	8MB
Memory:	2GB
Disk Subsystem:	1x4GB, 1x2GB
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	87.3	42.4	87	42.7
102.swim	8600	99.0	86.9	74	116
103.su2cor	1400	55.4	25.3	55	25.5
104.hydro2d	2400	65.9	36.4	67	36.1
107.mgrid	2500	46.6	53.6	40	61.9
110.applu	2200	167	13.2	165	13.3
125.turb3d	4100	92.4	44.4	90	45.5
141.apsi	2100	178	11.8	72	29.1
145.fpppp	9600	211	45.4	189	50.9
146.wave5	3000	96.0	31.3	95	31.5
SPECfp_base95 (G. Mean)			33.5		
		SPECfp95 (G. Mean)			38.9

Notes/Tuning Information

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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'
```

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-- Prepared By: --