SPEC CFP95 Results

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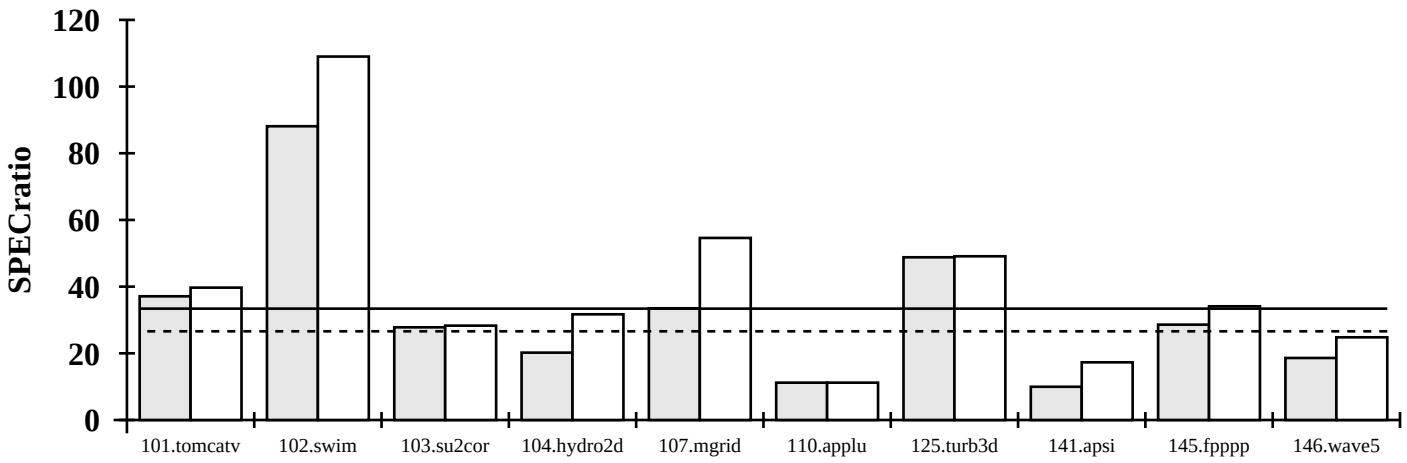
Digital Equipment Corp.
AlphaServer 4100 5/400

SPECfp95 = 33.4

SPECfp_base95 = 26.6

SPEC license # 2	Tested By: Digital NH	Test Date: Aug-96	Hardware Avail: Sep-96	Software Avail: Dec-96



Hardware/Software Configuration for:
AlphaServer 4100 5/400

Hardware

Model Name:	AlphaServer 4100 5/400
CPU:	400 MHz 21164
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	384MB
Disk Subsystem:	2 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4.0A-2
Compiler:	Digital FORTRAN T4.1-338L KAPF 3.1 960725 DEC C X5.3-148-334R
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	99.8	37.1	93	39.7
102.swim	8600	97.6	88.1	79	109
103.su2cor	1400	50.3	27.8	49	28.3
104.hydro2d	2400	119	20.2	76	31.7
107.mgrid	2500	74.6	33.5	46	54.6
110.applu	2200	197	11.2	196	11.2
125.turb3d	4100	84.0	48.8	84	49.1
141.apsi	2100	211	9.97	121	17.3
145.fpppp	9600	336	28.6	281	34.1
146.wave5	3000	161	18.6	121	24.8
SPECfp_base95 (G. Mean)			26.6		
		SPECfp95 (G. Mean)			33.4

Notes/Tuning Information

```
compiler: kf77     base optimizations: -fkapargs='-ipa_optimize=2 -mc=10000'

tomcatv: -O5 -fkapargs='-tune=ev5 -ag=ab -fuselevel=2 -conc'
swim: -O5 -transform_loops -fkapargs='-ag=ab -r=1 -ur=1 -ur2=600 -conc'
su2cor: -O5 -transform_loops -speculate all -fkapargs='-ag=ab -mc=5000 -ur=1'
hydro2d: -O5 -fkapargs='-ag=ab -ur=1 -conc -inl -inll=1 -ind=1 '
mgrid: -O5 -transform_loops -speculate all -fkapargs='-tune=ev5 -ipa -ag=ab -conc -fuselevel=1'
applu: -O5 -fkapargs='-ag=ab -mc=10000 -ipa_optimize=2'
turb3d: -O5 -fkapargs='-conc -ipa -ipall=3 -ipad=10 -noarclimit -heaplimit=500 -ur=1'
apsi: 'setenv DECFORT_CC cc.alt' plus -O5 -om -transform_loops
-fkapargs='-tune=ev5 -ag=ab -ur=4 -ur2=800 -ipa_optimize=2'
fpppp: -O2 -fkapargs='-so=0 -o=0'
wave5: -speculate all -fkapargs='-conc -ag=a -ur=5 -ur2=600'
PASS1=-gen_feedback
fdo_pre1=mv %binary% %exename%.orig;pixie -pids %exename%.orig -o %exename%
fdo_run1=%command%    fdo_post1=prof -pixie -feedback ../../src/%exename%.fb
%exename%.orig %exename%.orig.Addrs %exename%.orig.Counts.*   PASS2=-feedback $(EXENAME).fb
```

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-- Prepared By: --