SPEC CFP95 Results

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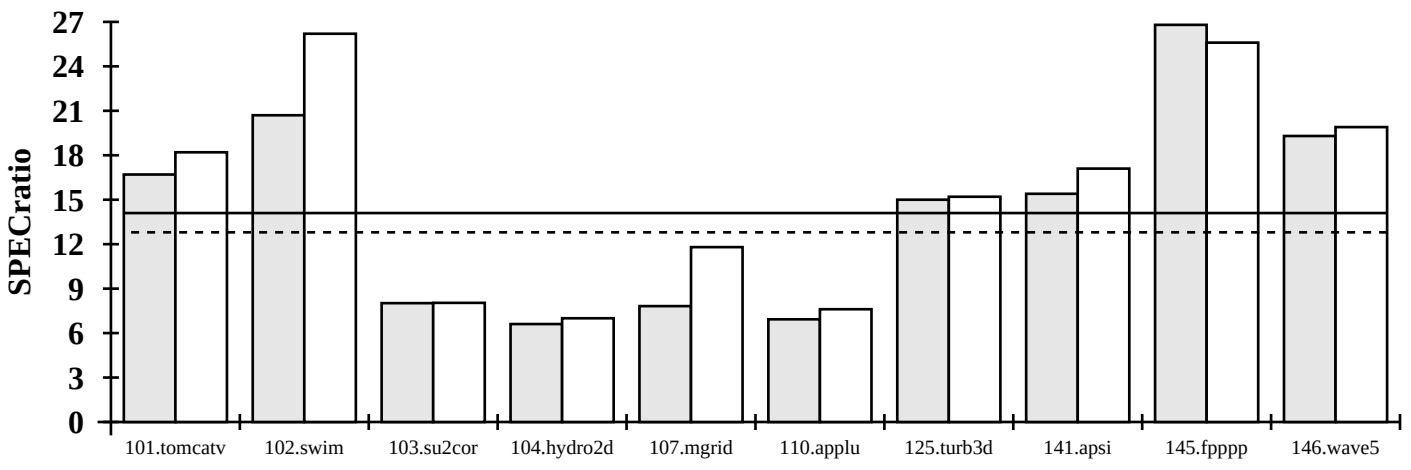
Digital Equipment Corp.
AlphaStation 500/400

SPECfp95 = 14.1

SPECfp_base95 = 12.8

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



Hardware/Software Configuration for:
AlphaStation 500/400

Hardware

Model Name:	AlphaStation 500/400
CPU:	400 MHz 21164
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	2MB
Memory:	128MB
Disk Subsystem:	1 x 2GB 1x 1GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4-2
Compiler:	DEC FORTRAN V4.0/KAPF V3 960401
File System:	UFS
System State:	Multi User; vm-page-free-min 5760

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	221	16.7	204	18.2
102.swim	8600	415	20.7	328	26.2
103.su2cor	1400	174	8.02	174	8.04
104.hydro2d	2400	363	6.61	343	7.00
107.mgrid	2500	320	7.82	213	11.8
110.applu	2200	318	6.93	289	7.61
125.turb3d	4100	274	15.0	270	15.2
141.apsi	2100	137	15.4	123	17.1
145.fpppp	9600	358	26.8	374	25.6
146.wave5	3000	155	19.3	151	19.9
SPECfp_base95 (G. Mean)			12.8		
		SPECfp95 (G. Mean)			14.1

Notes/Tuning Information

```
compiler: kf77
baseline optimizations: -fast

Peak:   tomcatv: -fast -O5 -non_shared -om -tL -h/usr/lib/cmplrs/cc.alt -B -fkapargs='-tune=ev5 -ag=ab -fuse'
swim: -fast -O5 -non_shared -om -tL -h/usr/lib/cmplrs/cc.alt -B -align dcommons -tune ev5 -fkapargs='-tune=ev5 -ag=ab
-ur=2 -ur2=600 ' su2cor: -fast -tune ev5 -transform_loops -speculate all     hydro2d: -tune ev5  -O5  -om -tL
-h/usr/lib/cmplrs/cc.alt -B -inline speed -fkapargs='-tune=ev4  -ur=8  -ur2=400 -ipa_optimize=2'     mgrid: -fast -O5
-transform_loops -tune ev5 -speculate all -fkapargs='-tune=ev5 -fuse '     applu: -tune ev5 -O5 -fkapargs='-tune=ev4
-fuse -ag=a'     turb3d: -fast -O5 -nopipeline -fkapargs='-tune=ev5 -fuse ' with feedback     apsi: -fast -O5 -om -tL
-h/usr/lib/cmplrs/cc.alt -B -transform_loops -fkapargs='-tune=ev5 -ag=ab -ur=4 -ur2=800 -nat -ipa_optimize=2'
fpppp: -fast -transform_loops -fkapargs='-tune=ev5'     wave5: -fast -O4 -tune ev5 -speculate all
-fkapargs='-tune=ev5 -ag=a -nat -ur=5 -ur2=600'  with feedback

feedback: 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: --