SPEC CFP95 Results

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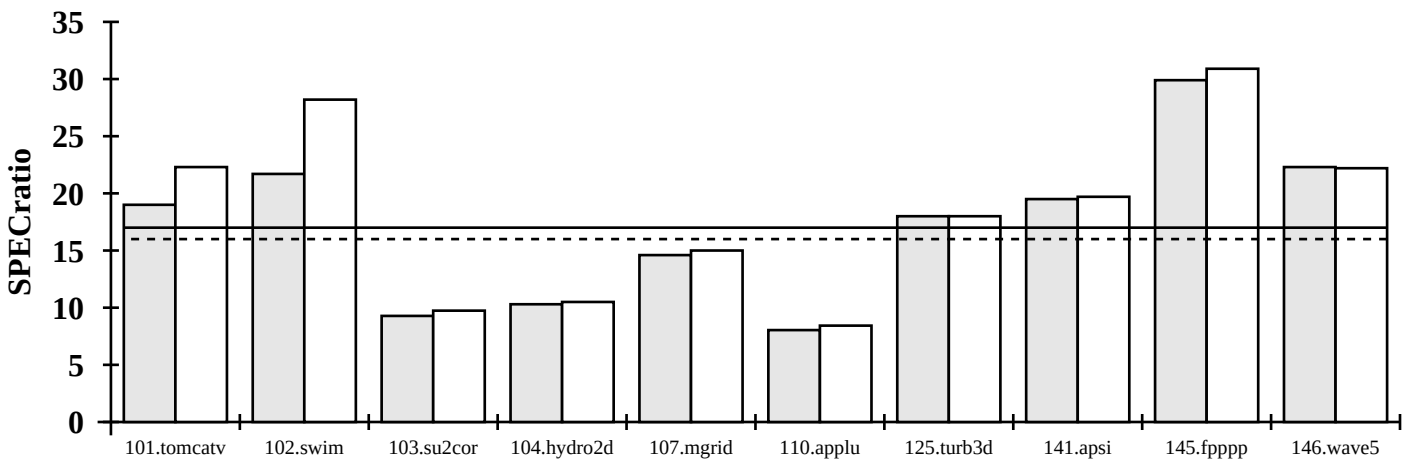
Digital Equipment Corp.
AlphaServer 8200 5/440

SPECfp95 = 17.0

SPECfp_base95 = 16.0

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



Hardware/Software Configuration for:
AlphaServer 8200 5/440

Hardware

Model Name:	AlphaServer 8200 5/440
CPU:	437 MHz 21164
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	128MB
Disk Subsystem:	1 x 2GB, 1 x 4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX V4.0A
Compiler:	Digital FORTRAN T4.1 KAPF 3.1 960725 DEC C V5.4
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	195	19.0	166	22.3
102.swim	8600	397	21.7	305	28.2
103.su2cor	1400	151	9.28	144	9.74
104.hydro2d	2400	234	10.3	229	10.5
107.mgrid	2500	171	14.6	167	15.0
110.applu	2200	274	8.04	261	8.43
125.turb3d	4100	227	18.0	227	18.0
141.apsi	2100	108	19.5	107	19.7
145.fpppp	9600	321	29.9	311	30.9
146.wave5	3000	134	22.3	135	22.2
SPECfp_base95 (G. Mean)			16.0		
		SPECfp95 (G. Mean)			17.0

Notes/Tuning Information

```
Compiler: kf77   Base optimizations: -O5 -fkapargs='-tune=ev5'
Peak uses 'setenv DECFORT_CC cc.alt' plus:
tomcatv: -WL,-om_no_inst_sched -O5 -om -fkapargs='-tune=ev5 -ag=ab -fuselevel=2'
swim: -O5 -om -WL,-om_no_inst_sched -transform_loops -fkapargs='-ag=ab -r=1 -ur=2 -ur2=600 '
su2cor: -transform_loops -O5 -speculate all
hydro2d: -O5 -om -WL,-om_no_inst_sched -inline speed -fkapargs='-tune=ev4 -ur=8 -ur2=400 -ipa_optimize=2'
mgrid: -O5 -om -WL,-om_no_inst_sched -transform_loops -speculate all -fkapargs='-tune=ev5 -fuselevel=1 -ipa'
applu: -O5 -fkapargs='-tune=ev4  -fuse -ag=a'
turb3d: -O5 -fkapargs='-tune=ev5 -fuse -fuselevel=2 -ipa'
apsi: -O5 -om -WL,-om_no_inst_sched -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='-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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