SPEC CFP95 Results

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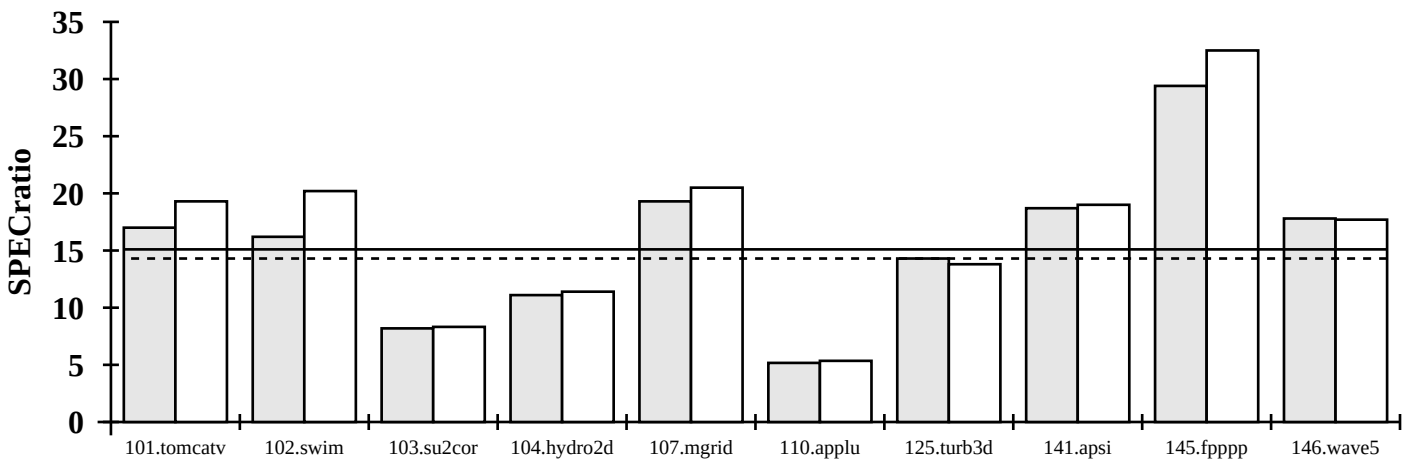
Digital Equipment Corp.
AlphaServer 2100A 5/375

SPECfp95 = 15.1

SPECfp_base95 = 14.3

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



Hardware/Software Configuration for:
AlphaServer 2100A 5/375

Hardware

Model Name:	AlphaServer 2100A 5/375
CPU:	374 MHz 21164
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB on chip
Other Cache:	8MB
Memory:	128MB
Disk Subsystem:	2 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX V4.0A
Compiler:	Digital FORTRAN T4.1-339I KAPF 3.1 960725 DEC C V5.4-044
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	217	17.0	192	19.3
102.swim	8600	532	16.2	427	20.2
103.su2cor	1400	171	8.19	168	8.32
104.hydro2d	2400	216	11.1	210	11.4
107.mgrid	2500	129	19.3	122	20.5
110.applu	2200	425	5.17	411	5.35
125.turb3d	4100	286	14.3	296	13.8
141.apsi	2100	112	18.7	111	19.0
145.fpppp	9600	327	29.4	295	32.5
146.wave5	3000	168	17.8	169	17.7
SPECfp_base95 (G. Mean)			14.3		
		SPECfp95 (G. Mean)			15.1

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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