SPEC CFP95 Results

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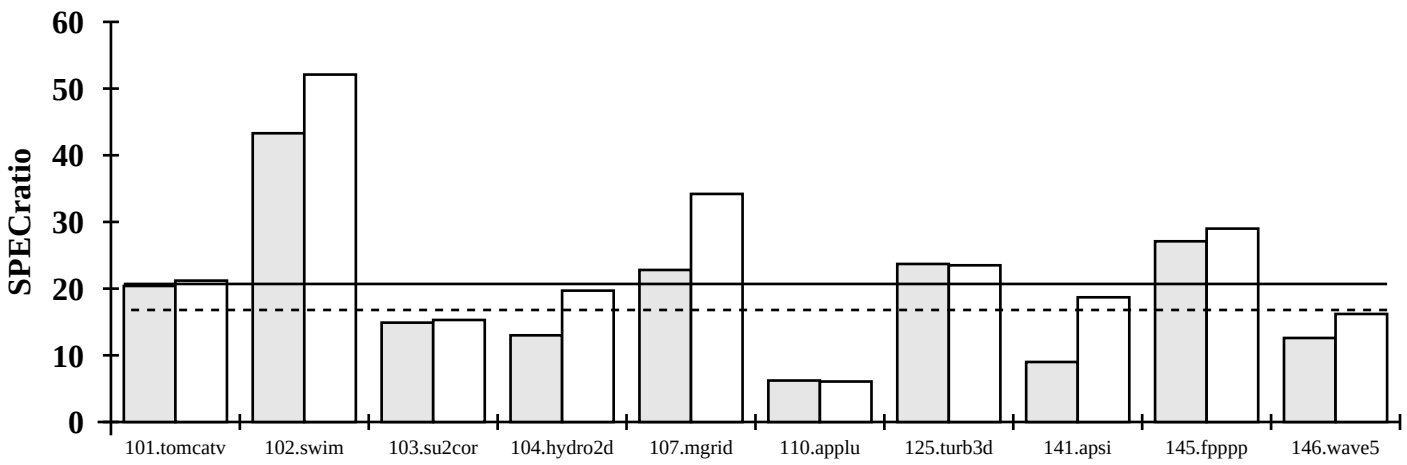
Digital Equipment Corp.
AlphaServer 2100A 5/375

SPECfp95 = 20.7

SPECfp_base95 = 16.8

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):	2
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB on chip
Other Cache:	8MB
Memory:	512MB
Disk Subsystem:	2 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX V4.0A
Compiler:	Digital FORTRAN T4.1-338L KAPF 3.1 960725 DEC C V5.4-044
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	182	20.4	174	21.2
102.swim	8600	199	43.3	165	52.1
103.su2cor	1400	94.2	14.9	92	15.3
104.hydro2d	2400	185	13.0	122	19.7
107.mgrid	2500	110	22.8	73	34.2
110.applu	2200	354	6.22	362	6.07
125.turb3d	4100	173	23.7	174	23.5
141.apsi	2100	233	9.00	112	18.7
145.fpppp	9600	354	27.1	331	29.0
146.wave5	3000	239	12.6	185	16.2
SPECfp_base95 (G. Mean)			16.8		
		SPECfp95 (G. Mean)			20.7

Notes/Tuning Information

```
compiler: kf77     base optimizations: -fkapargs='-ipa_optimize=2 -mc=10000'
Peak uses 'setenv DECFORT_CC cc.alt' plus:
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: -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
```

For More Information Contact:
SPEC
10754 Ambassador Drive, Suite 201
Manassas, VA 22110
(703) 331-0180
info@specbench.org
http://www.specbench.org