SPEC CFP95 Results

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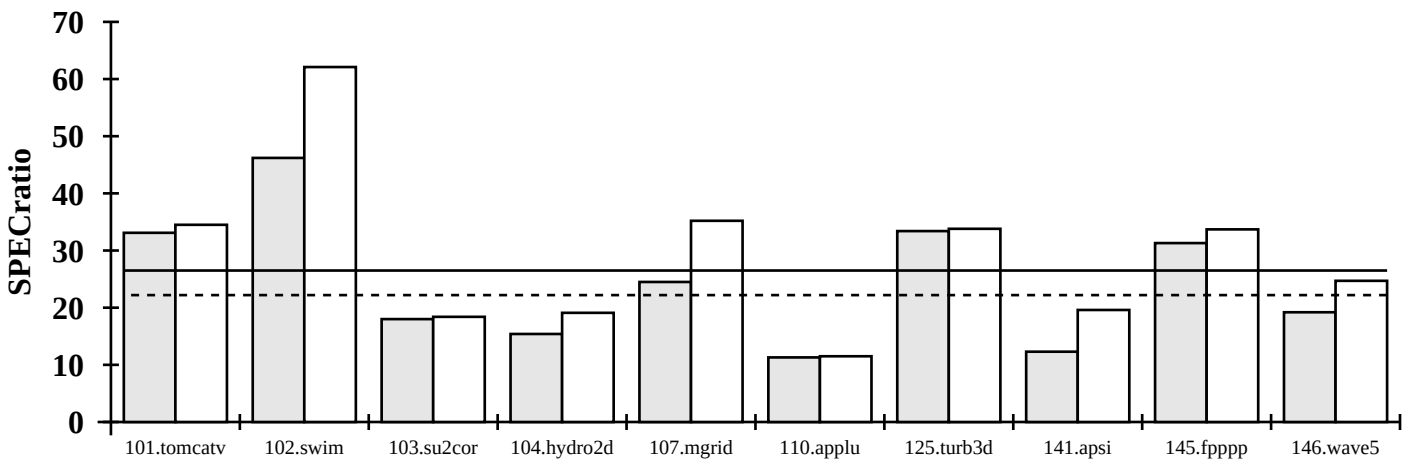
Digital Equipment Corp.
AlphaServer 4100 5/466

SPECfp95 = 26.5

SPECfp_base95 = 22.2

SPEC license # 2	Tested By: Digital NH	Test Date: Feb-97	Hardware Avail: Feb-97	Software Avail: Dec-96



Hardware/Software Configuration for:
AlphaServer 4100 5/466

Hardware

Model Name:	AlphaServer 4100 5/466
CPU:	466 MHz 21164
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	256MB
Disk Subsystem:	1 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX V4.0B
Compiler:	Digital Fortran V4.1-92 KAPF V3.1 961104
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	112	33.1	107	34.5
102.swim	8600	186	46.2	138	62.1
103.su2cor	1400	77.9	18.0	76	18.4
104.hydro2d	2400	156	15.4	126	19.1
107.mgrid	2500	102	24.5	71	35.2
110.applu	2200	194	11.3	191	11.5
125.turb3d	4100	123	33.4	121	33.8
141.apsi	2100	170	12.3	107	19.6
145.fpppp	9600	307	31.3	285	33.7
146.wave5	3000	156	19.2	121	24.7
SPECfp_base95 (G. Mean)			22.2		
			SPECfp95 (G. Mean)		26.5

Notes/Tuning Information

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All benchmarks use kf77 -non_shared /usr/opt/alt/usr/lib/threads/libpthread.a

Additional switches are:
base: -fkapargs='-ipa_optimize=2 -mc=10000'
tomcatv: -fkapargs='-ag=ab -fuselevel=2 -conc'
swim: -O5 -transform_loops -fkapargs='-tune=ev4 -ag=ab -ur=1 -conc'
su2cor: -O5 -transform_loops -speculate all -fkapargs='-tune=ev4 -ag=ab -mc=5000 -ur=1'
hydro2d: -O5 -transform_loops -inline speed -fkapargs='-ag=ab -ur=8 -ur2=400 -conc'
mgrid: -O5 -transform_loops -speculate all -fkapargs='-ipa -ag=ab -conc -fuselevel=1'
applu: -O5 -fkapargs='-ag=ab -mc=10000 -ipa_optimize=2'
turb3d: -O5 -fkapargs='-conc -ipa_optimize=2 -ur=1'
apsi: -O5 -transform_loops -fkapargs='-ur=4 -ur2=1000 -ipa_optimize=2'
fpppp: -O2 -fkapargs='-so=0 -o=0'
wave5: -speculate all -fkapargs='-conc -ag=a -ur=5 -ur2=600'

Feedback (used by wave5 only): 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: --