SPEC CFP95rate Results

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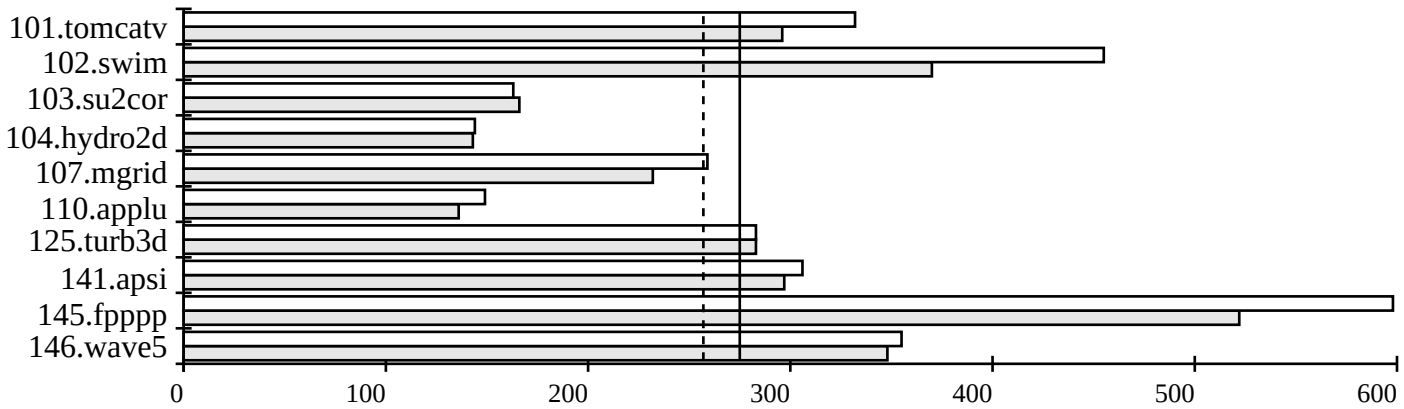
Digital Equipment Corp.
AlphaServer 4000 5/400

SPECfp_rate95 = 275

SPECfp_rate_base95 = 257

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



SPECrate

Hardware/Software Configuration for:
AlphaServer 4000 5/400

Hardware

Model Name:	AlphaServer 4000 5/400
CPU:	400 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:	2 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4.0A-2
Compiler:	Digital FORTRAN T4.1-338L KAPF 3.1 960725
File System:	UFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	2	225	296	2	201	332
102.swim	2	418	370	2	340	455
103.su2cor	2	152	166	2	155	163
104.hydro2d	2	303	143	2	301	144
107.mgrid	2	194	232	2	174	259
110.applu	2	291	136	2	267	149
125.turb3d	2	261	283	2	261	283
141.apsi	2	127	297	2	123	306
145.fpppp	2	331	522	2	289	598
146.wave5	2	155	348	2	152	355
SPECfp_rate_base95 (G. Mean)			257			
SPECfp_rate95 (G. Mean)						275

Notes/Tuning Information

```
Compiler invokation: kf77      Base optimizations: -O5

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