SPEC CFP95rate Results

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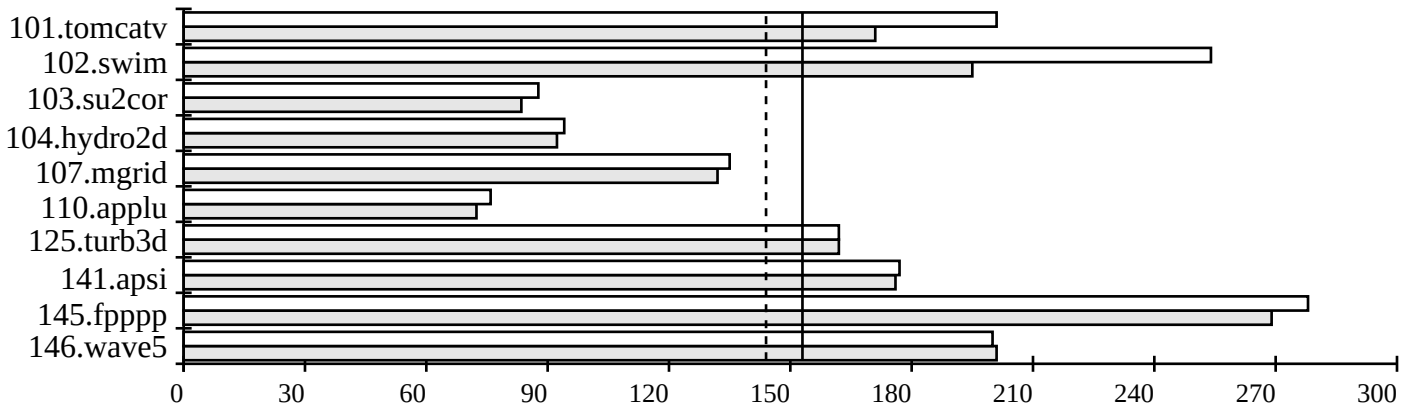
Digital Equipment Corp.
AlphaServer 8200 5/440

SPECfp_rate95 = 153

SPECfp_rate_base95 = 144

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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	1	195	171	1	166	201
102.swim	1	397	195	1	305	254
103.su2cor	1	151	83.5	1	144	87.7
104.hydro2d	1	234	92.3	1	229	94.1
107.mgrid	1	171	132	1	167	135
110.applu	1	274	72.4	1	261	75.9
125.turb3d	1	227	162	1	227	162
141.apsi	1	108	176	1	107	177
145.fpppp	1	321	269	1	311	278
146.wave5	1	134	201	1	135	200
SPECfp_rate_base95 (G. Mean)			144			
SPECfp_rate95 (G. Mean)						153

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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