SPEC CFP95rate Results

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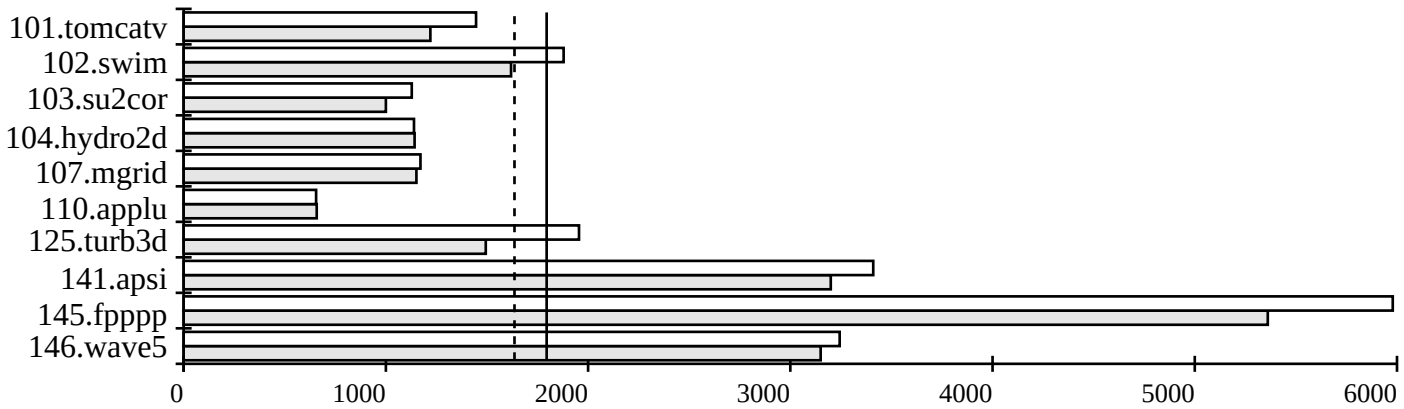
Compaq Computer Corporation
Digital AlphaServer 8400 6/575

SPECfp_rate95 = 1795

SPECfp_rate_base95 = 1636

SPEC license # 2	Tested By: Digital NH	Test Date: Jul-98	Hardware Avail: Nov-98	Software Avail: Oct-98



SPECrate

Hardware/Software Configuration for:
Digital AlphaServer 8400 6/575

Hardware

Model Name:	Digital AlphaServer 8400 6/575
CPU:	575 MHz 21264
FPU:	Integrated
Number of CPU(s):	8
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB
Other Cache:	none
Memory:	512MB (4x128MB)
Disk Subsystem:	1x4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0E-5
Compiler:	f77 and f90 with gem 4085M kf77 and kf90 4.0 980529 DFARTL 379 cc.alt/om May 20, 1997
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	8	218	1220	8	184	1446
102.swim	8	383	1619	8	329	1879
103.su2cor	8	101	1000	8	89	1128
104.hydro2d	8	151	1142	8	152	1139
107.mgrid	8	156	1151	8	154	1171
110.applu	8	241	658	8	242	655
125.turb3d	8	198	1494	8	151	1955
141.apsi	8	47.2	3200	8	44	3410
145.fpppp	8	129	5361	8	116	5979
146.wave5	8	68.6	3150	8	67	3244
SPECfp_rate_base95 (G. Mean)			1636			
SPECfp_rate95 (G. Mean)						1795

Notes/Tuning Information

```
Base tuning: kf77 -arch ev6 -O5  -fkapargs='-ur=1'

Peak:    All use -arch ev6, plus:
tomcatv: kf77 -O4 -fkapargs='-ag=a -fuselevel=2 -ur=1'
swim:    kf77 -O5 -fkapargs='-fuselevel=2 -ag=a -ur=1'
su2cor:  kf90 -O5 -fkapargs='-ur=4' -speculate all -transform_loops
hydro2d: kf77 -O5 -fkapargs='-ur=4 -ur2=400 -ur3=10' -inline speed
mgrid:   kf77 -O5 -fkapargs='-fuselevel=1 -ur=1' -speculate all
applu:   kf77 -O5 -fkapargs='-fuse -ag=a -ur=1' -transform_loops
turb3d:  kf90 -O5 -fkapargs='-ag=a -fuse -fuselevel=2 -ipa -ur=1'
apsi:    kf90 -O5 -fkapargs='-ag=ab -ur=1 -ipa_optimize=2' -transform_loops
fpppp:   kf77 -O2 -fkapargs='-so=0 -o=0'
wave5:   kf77 -O5 -fkapargs='-ipa -ag=a -ur=5 -ur2=600' -speculate all
```

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-- Prepared By: --