SPEC CFP95rate Results

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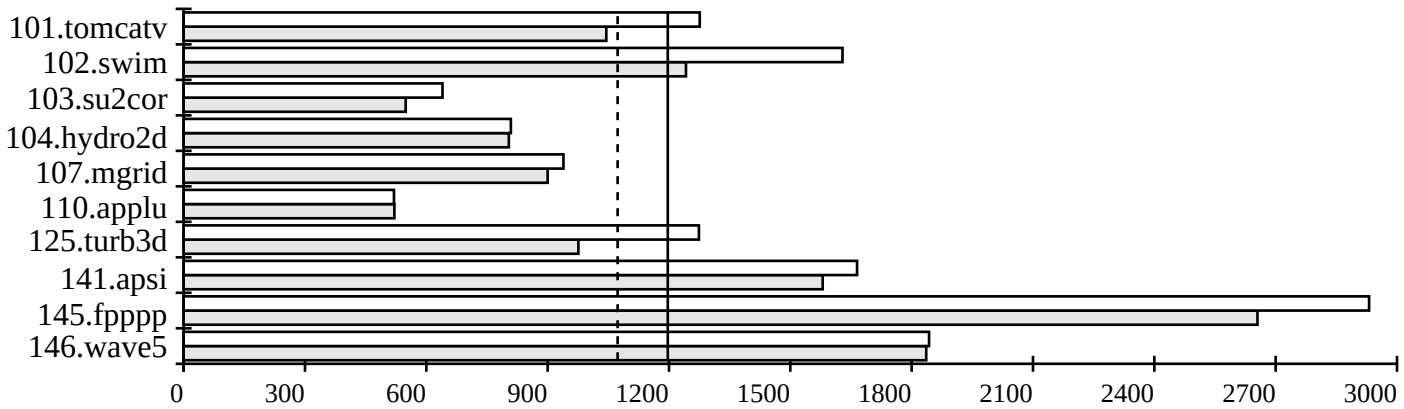
Compaq Computer Corporation
Digital AlphaServer 8400 6/575

SPECfp_rate95 = 1197

SPECfp_rate_base95 = 1073

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):	4
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB
Other Cache:	none
Memory:	8GB (4x2GB)
Disk Subsystem:	3x4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0E-4
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	4	128	1045	4	104	1276
102.swim	4	249	1242	4	190	1629
103.su2cor	4	91.8	549	4	79	640
104.hydro2d	4	108	804	4	107	809
107.mgrid	4	100	900	4	96	939
110.applu	4	152	521	4	152	520
125.turb3d	4	151	976	4	116	1274
141.apsi	4	47.8	1580	4	45	1665
145.fpppp	4	130	2655	4	118	2931
146.wave5	4	58.8	1836	4	59	1843
SPECfp_rate_base95 (G. Mean)			1073			
SPECfp_rate95 (G. Mean)						1197

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: --