SPEC CFP95rate Results

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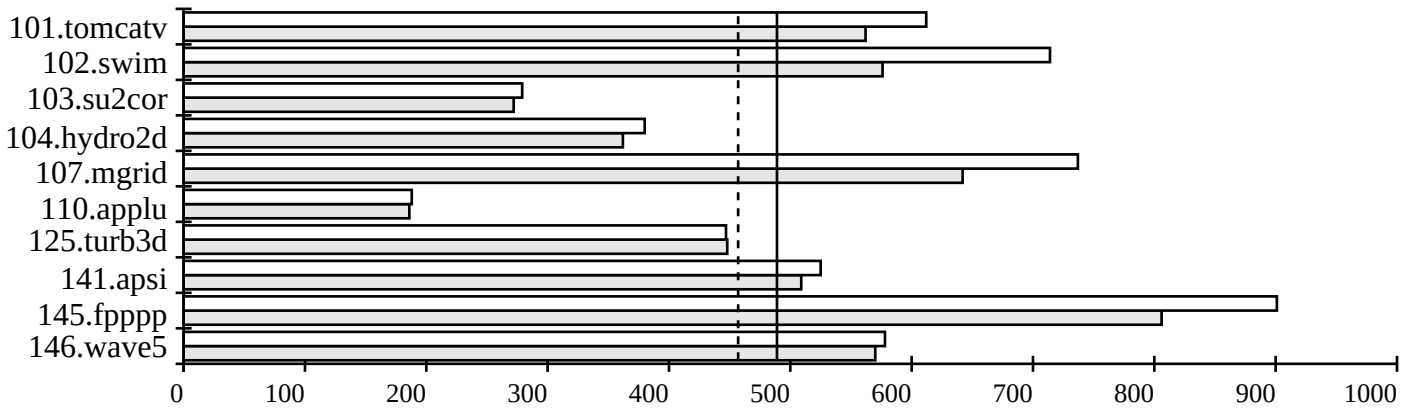
Digital Equipment Corp.
AlphaServer 4100 5/600

SPECfp_rate95 = 489

SPECfp_rate_base95 = 457

SPEC license # 2	Tested By: Digital NH	Test Date: Oct-97	Hardware Avail: Apr-98	Software Avail: Dec-97



Hardware/Software Configuration for:
AlphaServer 4100 5/600

Hardware

Model Name:	AlphaServer 4100 5/600
CPU:	600 MHz 21164
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	8MB
Memory:	2GB
Disk Subsystem:	1x4GB, 1x2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0D-11
Compiler:	Fortran 77 V5.0-138-3678F KAPF V3.1a 970519 DFARTL 373
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	119	562	2	109	612
102.swim	2	269	576	2	217	714
103.su2cor	2	92.6	272	2	90	279
104.hydro2d	2	119	362	2	114	380
107.mgrid	2	70.1	642	2	61	737
110.applu	2	213	186	2	211	188
125.turb3d	2	165	448	2	165	447
141.apsi	2	74.3	509	2	72	525
145.fpppp	2	214	806	2	192	901
146.wave5	2	94.8	570	2	93	578
SPECfp_rate_base95 (G. Mean)			457			
SPECfp_rate95 (G. Mean)						489

Notes/Tuning Information

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Compiler invocation: kf77
Base switches: -O5

Peak switches:
tomcatv: -O5 -fkapargs='-ag=ab -fuselevel=2'
swim:    -O5 -transform_loops -fkapargs='-tune=ev4 -fuselevel=2 -ag=ab -r=1 -ur=2 -ur2=600 '
su2cor:  -O5 -speculate all -transform_loops -fkapargs='-ur=4'
hydro2d: -O5 -inline speed -fkapargs='-tune=ev4 -ur=8 -ur2=400 -ur3=10'
mgrid:   -O5 -speculate all -fkapargs='-fuselevel=1 -ipa'
applu:   -O5 -fkapargs='-tune=ev4  -fuse -ag=a -ur3=10'
turb3d:  -O5 -fkapargs='-fuse -fuselevel=2 -ipa'
apsi:    -O5 -transform_loops -fkapargs='-ag=ab -ur=4 -ur2=800 -ipa_optimize=2'
fpppp:   -O2 -om -fkapargs='-so=0 -o=0'
wave5:   -O5 -speculate all -fkapargs='-ipa -ag=a -ur=5 -ur2=600'
om is invoked via cc.alt driver (setenv DECFORT_CC cc.alt)
```

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