SPEC CFP95rate Results

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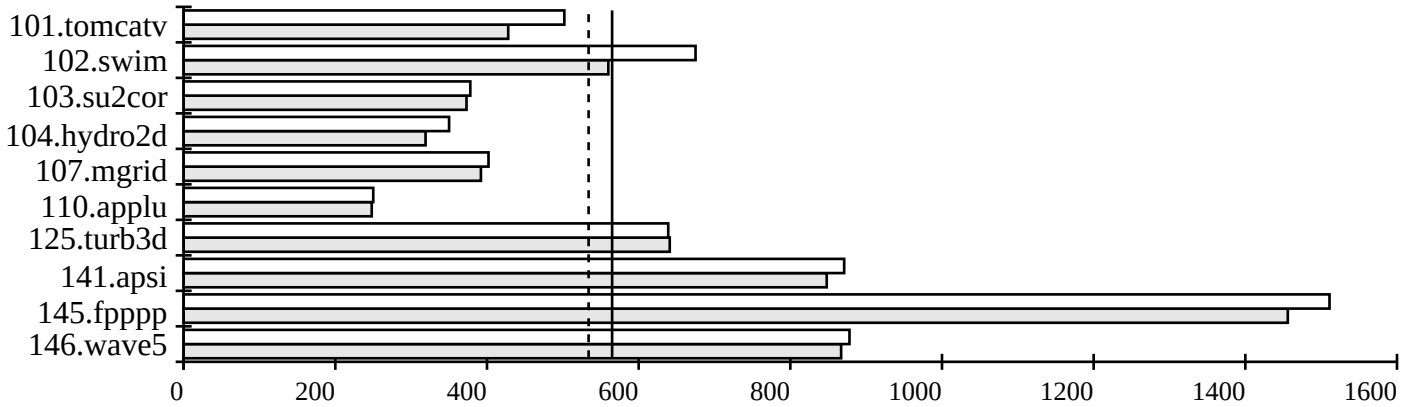
Digital Equipment Corp.
AlphaServer 4100 5/533

SPECfp_rate95 = 565

SPECfp_rate_base95 = 534

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



SPECrate

Hardware/Software Configuration for:
AlphaServer 4100 5/533

Hardware

Model Name:	AlphaServer 4100 5/533
CPU:	533 MHz 21164
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	384MB
Disk Subsystem:	1 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4.0D-3
Compiler:	Fortran 77 T5.0-137-3670 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	4	311	428	4	266	502
102.swim	4	553	560	4	459	675
103.su2cor	4	135	373	4	133	378
104.hydro2d	4	271	319	4	247	350
107.mgrid	4	229	392	4	224	402
110.applu	4	320	248	4	316	250
125.turb3d	4	230	641	4	231	639
141.apsi	4	89.1	848	4	87	871
145.fpppp	4	237	1456	4	229	1511
146.wave5	4	125	867	4	123	878
SPECfp_rate_base95 (G. Mean)			534			
			SPECfp_rate95 (G. Mean)			565

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 -ipa_optimize=2'
mgrid:   -O5 -speculate all -fkapargs='-fuselevel=1 -ipa'
applu:   -O5 -fkapargs='-tune=ev4  -fuse -ag=a'
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'
Fortran invokes om via cc.alt driver (setenv DECFORT_CC cc.alt)
```

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-- Prepared By: --