SPEC CFP95rate Results

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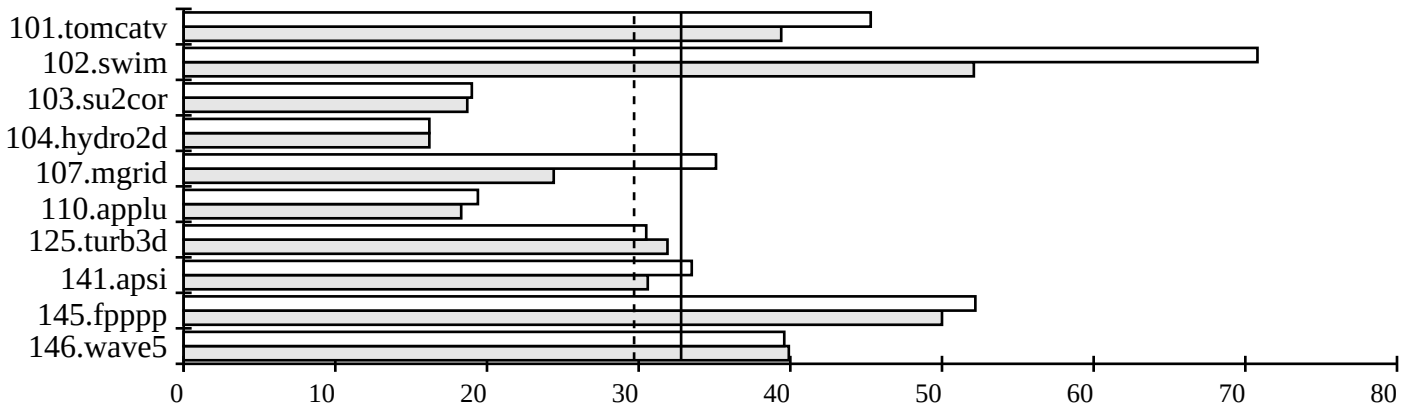
Digital Equipment Corp.
AlphaStation 200 4/166

SPECfp_rate95	=	32.8
SPECfp_rate_base95	=	29.7

SPEC license # 2	Tested By: Digital NH	Test Date: Jul-96	Hardware Avail: Dec-94	Software Avail: Aug-96



Hardware/Software Configuration for:
AlphaStation 200 4/166

Hardware

Model Name:	AlphaStation 200 4/166
CPU:	166 MHz 21064
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	512KB
Other Cache:	none
Memory:	128MB
Disk Subsystem:	1 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX V4.0A
Compiler:	DEC FORTRAN V4.0 KAPF V3 960401 DEC C X5.3-148-334R
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	844	39.4	1	735	45.3
102.swim	1	1487	52.1	1	1093	70.8
103.su2cor	1	675	18.7	1	662	19.0
104.hydro2d	1	1332	16.2	1	1330	16.2
107.mgrid	1	924	24.4	1	640	35.1
110.applu	1	1079	18.3	1	1022	19.4
125.turb3d	1	1157	31.9	1	1208	30.5
141.apsi	1	617	30.6	1	564	33.5
145.fpppp	1	1728	50.0	1	1654	52.2
146.wave5	1	676	39.9	1	682	39.6
SPECfp_rate_base95 (G. Mean)			29.7			
SPECfp_rate95 (G. Mean)						32.8

Notes/Tuning Information

```
Compiler invokation: kf77
Base tuning: -noautomatic

Peak tuning:
tomcatv: -O5 -om -tL -h/usr/lib/cmplrs/cc.alt -B -fkapargs='-tune=ev5 -ag=ab -fuse'
swim: -O4 -om -tL -h/usr/lib/cmplrs/cc.alt -B -align dcommons -fkapargs='-tune=ev4 -ag=ab  -ur=2 -ur2=600 '
su2cor: no switches
hydro2d: -O5 -om -tL -h/usr/lib/cmplrs/cc.alt -B -inline speed -fkapargs='-tune=ev4
-ur=8 -ur2=400 -ipa_optimize=2'
mgrid: -O5 -om -tL -h/usr/lib/cmplrs/cc.alt -B -transform_loops -speculate all -fkapargs='-tune=ev4 -fuse '
applu: -O5 -fkapargs='-tune=ev4  -fuse -ag=a'
turb3d: -noautomatic -om -tL -h/usr/lib/cmplrs/cc.alt -B
apsi: -tune ev5 -O4 -om -tL -h/usr/lib/cmplrs/cc.alt -B -transform_loops
-fkapargs='-tune=ev5 -ag=ab -ur=4 -ur2=800 -nat -ipa_optimize=2'
fpppp: -O2 -noautomatic -fkapargs='-so=0 -o=0'
wave5: -noautomatic
```

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-- Prepared By: --