SPEC CFP95rate Results

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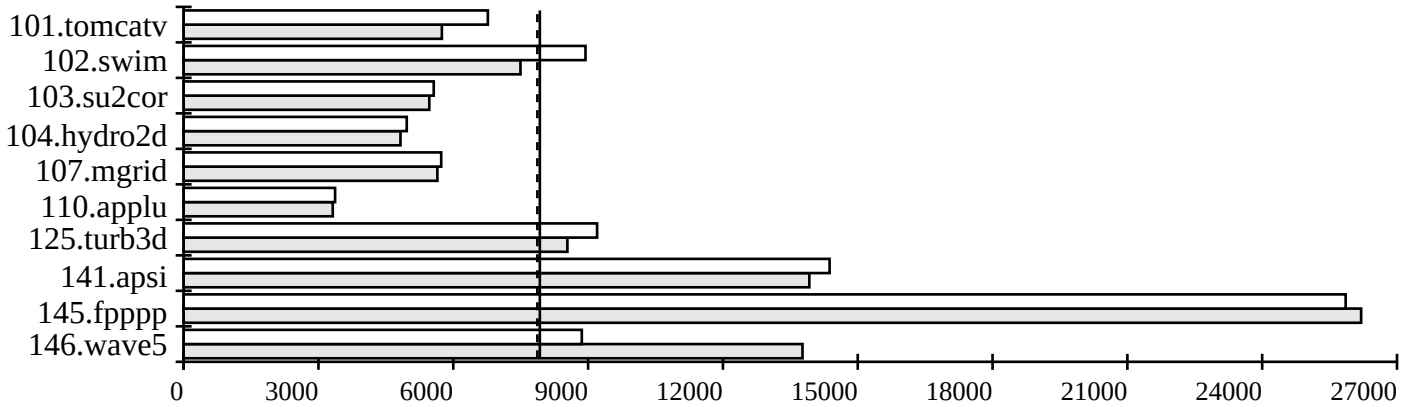
Digital Equipment Corp.
AlphaServer 8400 5/625 Cluster

SPECfp_rate95 = 7926

SPECfp_rate_base95 = 7871

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



Hardware/Software Configuration for:
AlphaServer 8400 5/625 Cluster

Hardware

Model Name:	AlphaServer 8400 5/625 Cluster
CPU:	612 MHz 21164
FPU:	Integrated
Number of CPU(s):	64, 8-node (8 cpus/node)
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB (I+D) on chip
Other Cache:	4MB (I+D) off chip
Memory:	64GB (8GB / node)
Disk Subsystem:	(8) RZ1C 4GB
Other Hardware:	Ethernet Memory Channel HSZ70 IO Controller

Software

Operating System:	Digital Unix V4.0D-14 TruCluster 1.5
Compiler:	Fortran 77 V5.0-138-3678F KAPF V3.1a 970519 DFARTL 373
File System:	NFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	64	371	5746	64	315	6769
102.swim	64	661	7495	64	554	8942
103.su2cor	64	148	5466	64	145	5565
104.hydro2d	64	286	4825	64	278	4964
107.mgrid	64	255	5646	64	251	5731
110.applu	64	382	3318	64	376	3370
125.turb3d	64	277	8539	64	257	9200
141.apsi	64	86.9	13923	64	84	14374
145.fpppp	64	211	26202	64	214	25858
146.wave5	64	125	13771	64	195	8860
SPECfp_rate_base95 (G. Mean)			7871			
		SPECfp_rate95 (G. Mean)				7926

Notes/Tuning Information

```
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)
remote runs: submit00n=rsh sysname "cd %dir%; %command% && exit 0"
sysconfigtab parameters tcp_ttl = 20
```

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