SPEC CFP95rate Results

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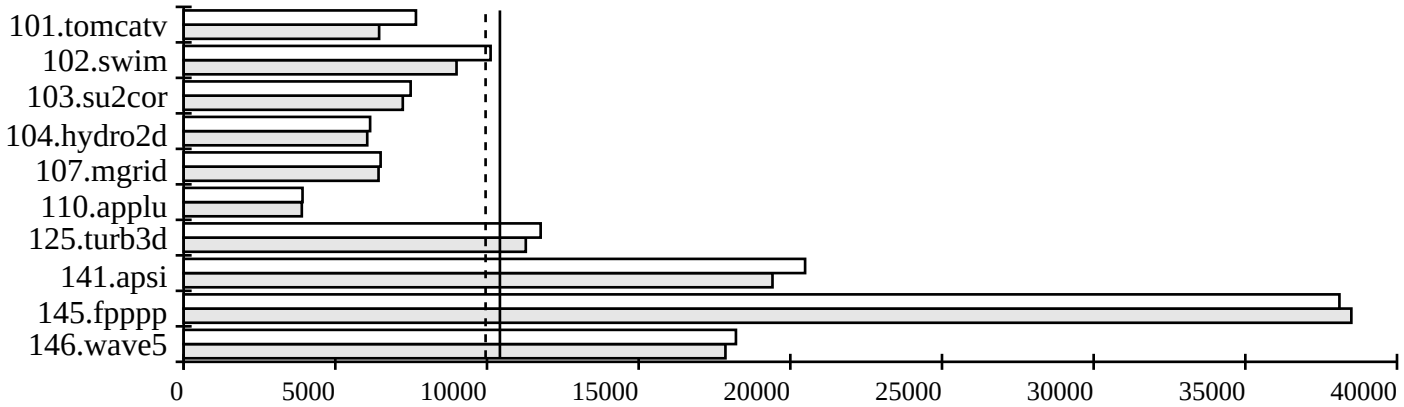
Digital Equipment Corp.
AlphaServer 8400 5/625 Cluster

SPECfp_rate95 = 10426

SPECfp_rate_base95 = 9954

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



SPECrate

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):	96, 8-node (12 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	95	491	6444	95	413	7658
102.swim	95	817	8996	95	727	10119
103.su2cor	95	166	7224	95	160	7483
104.hydro2d	95	339	6052	95	334	6147
107.mgrid	95	333	6425	95	329	6493
110.applu	95	483	3895	95	480	3919
125.turb3d	95	311	11279	95	298	11769
141.apsi	95	92.5	19412	95	88	20487
145.fpppp	95	213	38495	95	215	38102
146.wave5	95	144	17861	95	141	18207
SPECfp_rate_base95 (G. Mean)			9954			
SPECfp_rate95 (G. Mean)						10426

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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