SPEC CFP95 Results

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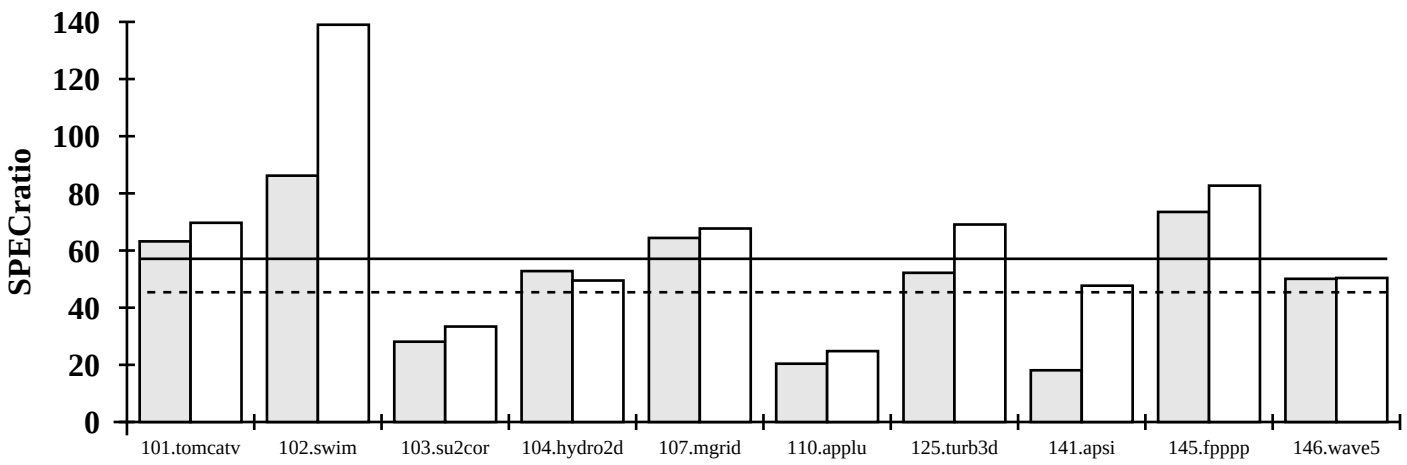
Compaq Computer Corporation
Digital AlphaServer 8200 6/575

SPECfp95 = 57.1

SPECfp_base95 = 45.4

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



Hardware/Software Configuration for:
Digital AlphaServer 8200 6/575

Hardware

Model Name:	Digital AlphaServer 8200 6/575
CPU:	575 MHz 21264
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB
Other Cache:	none
Memory:	8GB (2x4GB)
Disk Subsystem:	3x4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0E-4
Compiler:	Fortran 90 X5.1-620-4085M Fortran 77 X4.0-145-4085M kf90 and kf77 4.0 980529 DFARTL 379
File System:	UFS
System State:	Multi-user

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	58.5	63.2	53	69.7
102.swim	8600	99.8	86.2	62	139
103.su2cor	1400	49.9	28.1	42	33.4
104.hydro2d	2400	45.4	52.8	49	49.5
107.mgrid	2500	38.8	64.4	37	67.7
110.applu	2200	108	20.4	89	24.8
125.turb3d	4100	78.5	52.2	59	69.1
141.apsi	2100	116	18.1	44	47.7
145.fpppp	9600	131	73.5	116	82.7
146.wave5	3000	59.9	50.1	59	50.4
SPECfp_base95 (G. Mean)			45.4		
		SPECfp95 (G. Mean)			57.1

Notes/Tuning Information

```
kf90 -granularity byte -fkapargs='-ipa_optimize=2 -ur=1 -mc=1500'

Peak tuning: all use -arch ev6, plus:
tomcatv:    kf90     -fkapargs='-ag=ab -fuselevel=2 -ur=1 -conc'
swim:       kf90 -O5 -fkapargs='-ag=a -ur=1 -conc'
su2cor:     kf90 -O5 -fkapargs='-ag=a -conc -ur=4' -transform_loops -speculate all
hydro2d:    kf77 -O5 -fkapargs='-ag=ab -ur=1 -conc' -transform_loops -inline speed
mgrid:      kf90 -O5 -fkapargs='-ipa -ur=1 -ag=ab -conc -fuselevel=1' -speculate all
applu:      kf90 -O5 -fkapargs='-ag=a -conc -ipa_optimize=2' -transform_loops
turb3d:     kf90 -O5 -fkapargs='-ag=ab -conc -ipa_optimize=2 -ur=1'
apsi:       kf90 -O5 -fkapargs='-ag=ab -ur=1 -ipa_optimize=2' -transform_loops
fpppp:      kf77 -O2 -fkapargs='-so=0 -o=0'
wave5:      kf90     -fkapargs='-conc -ag=a -ur=1' -speculate all
```

For More Information Contact:
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-- Prepared By: --