SPEC CFP95rate Results

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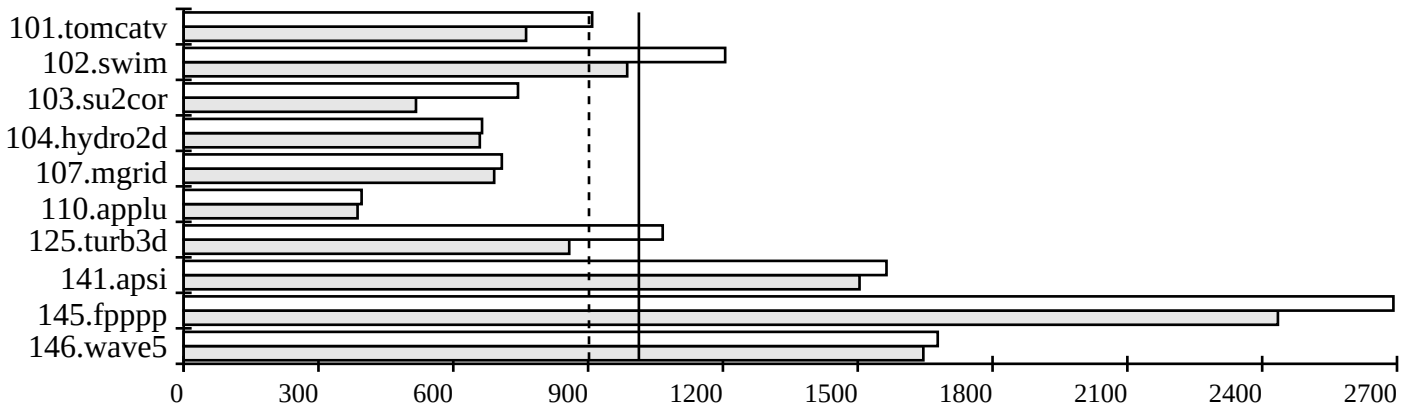
Compaq Computer Corporation
Compaq AlphaServer GS60 6/525

SPECfp_rate95 = 1013

SPECfp_rate_base95 = 902

SPEC license # 2	Tested By: Digital NH	Test Date: Sep-98	Hardware Avail: Nov-98	Software Avail: Jan-99



Hardware/Software Configuration for:
Compaq AlphaServer GS60 6/525

Hardware

Model Name:	Compaq AlphaServer GS60 6/525
CPU:	525 MHz 21264
FPU:	Integrated
Number of CPU(s):	4
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-7
Compiler:	f77 and f90 with GEM 4088L kf77 and kf90 4.1T 980815 DFARTL 379
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	175	762	4	147	909
102.swim	4	314	987	4	257	1205
103.su2cor	4	97.4	517	4	68	744
104.hydro2d	4	131	659	4	130	664
107.mgrid	4	130	691	4	127	708
110.applu	4	205	387	4	200	396
125.turb3d	4	172	858	4	139	1066
141.apsi	4	50.3	1504	4	48	1564
145.fpppp	4	142	2435	4	128	2692
146.wave5	4	65.6	1646	4	64	1678
SPECfp_rate_base95 (G. Mean)			902			
SPECfp_rate95 (G. Mean)						1013

Notes/Tuning Information

```
Baseline: kf77 -arch ev6 -O5  -fkapargs='-ur=1'

Peak: all use -arch ev6, plus:
tomcatv: kf77 -O4                    -fkapargs='-ag=a -fuselevel=2 -ur=1'
swim:    kf77 -O5 -transform_loops -fkapargs='-ag=a -fuselevel=2 -ur=1'
hydro2d: kf77 -O5 -inline speed    -fkapargs='-ur=4 -ur2=400 -ur3=10'
mgrid:   kf77 -O5 -speculate all   -fkapargs='-fuselevel=2 -ur=1'
applu:   kf77 -O5 -transform_loops -fkapargs='-ag=a -fuse -ur=1'
apsi:    kf90 -O5 -transform_loops -fkapargs='-ag=ab -ur=1 -ipa_optimize=2'
fpppp:   kf77 -O2                  -fkapargs='-so=0 -o=0'
wave5:   kf77 -O5 -speculate all   -fkapargs='-ag=a -ipa -ur=5 -ur2=600'
su2cor:  kf90 -O5 -transform_loops -speculate all -fkapargs='-ag=abfg -ur=4'
turb3d:  kf90 -O3 -inline speed -pipeline -fkapargs='-ag=a -fuselevel=1 -r=1
.                                    -o=4 -unroll=10 -unroll2=560 -unroll3=50'
```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-- Prepared By: --