SPEC CFP95rate Results

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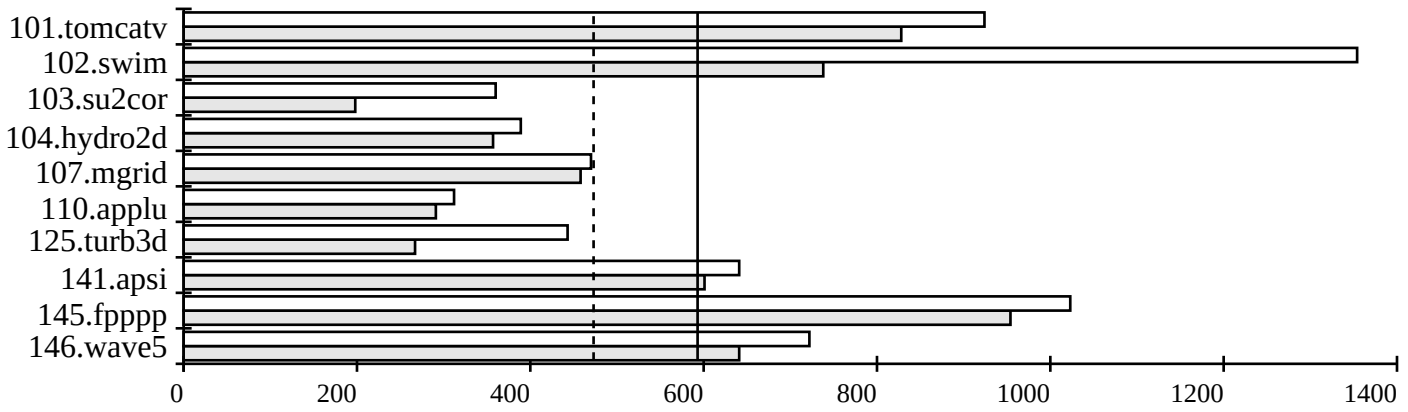
Compaq Computer Corporation
AlphaServer GS320 6/731

SPECfp_rate95 = 593

SPECfp_rate_base95 = 473

SPEC license # 2 | Tested By: Compaq NH | Test Date: Apr-2000 | Hardware Avail: Jun-2000 | Software Avail: Jul-2000



Hardware/Software Configuration for:
AlphaServer GS320 6/731

Hardware

Model Name:	AlphaServer GS320 6/731
CPU:	731 MHz 21264A
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB per CPU
Other Cache:	none
Memory:	4GB
Disk Subsystem:	mfs (Memory File System)
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX T5.1-9 (Release for GS160,GS320)
Compiler:	Fortran V5.3 KAP Fortran V4.2
File System:	mfs
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	1	40.2	828	1	36	924
102.swim	1	105	738	1	57	1354
103.su2cor	1	63.5	198	1	35	360
104.hydro2d	1	60.6	357	1	56	389
107.mgrid	1	49.1	458	1	48	470
110.applu	1	68.1	291	1	63	312
125.turb3d	1	138	267	1	83	443
141.apsi	1	31.4	601	1	29	641
145.fpppp	1	90.6	954	1	84	1023
146.wave5	1	42.1	641	1	37	722
SPECfp_rate_base95 (G. Mean)			473			
SPECfp_rate95 (G. Mean)						593

Notes/Tuning Information

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

tomcatv: kf90 -arch ev6 -O5 -inline none
.        -fkapargs='-fuselevel=2 -ur=9 -ur2=460 -ur3=30 '
swim:    kf77 -arch ev6 -O5 -fkapargs='-ag=a -fuselevel=2 -ur=1'
su2cor:  kf90 -arch ev6 -O3 -transform_loops -automatic
.        -fkapargs=' -ag=abfg -r=0 -nointerleave -ur2=260 '
hydro2d: kf90 -arch ev6 -O5 -fkapargs='-fuselevel=2 -ur2=860'
mgrid:   kf77 -arch ev6 -O5 -speculate all -fkapargs='-fuselevel=2 -ur=1'
applu:   kf90 -arch ev6 -transform_loops -automatic -fkapargs=' -r=2 -o=0 -ur2=60 '
turb3d:  kf90 -arch ev6 -O5 -speculate all -automatic
.        -fkapargs=' -ag=a -o=1 -ur2=760 -ur3=100 '
apsi:    kf90 -arch ev6 -O2 -pipeline -automatic
.        -fkapargs=' -fuselevel=2 -ur=8 -ur2=60 '
fpppp:   kf90 -arch ev6 -O2 -transform_loops -fkapargs='-so=0 -o=0'
wave5:   kf90 -arch ev6 -O5 -transform_loops -unroll 15
.        -fkapargs='-r=1 -o=2 -ur2=260 -ur3=30'
Tru64 Unix V5.1 will ship in Jul-2000 for use on the GS160,
 GS320 platforms; the final version will ship Sep-2000
```