SPEC CFP95rate Results

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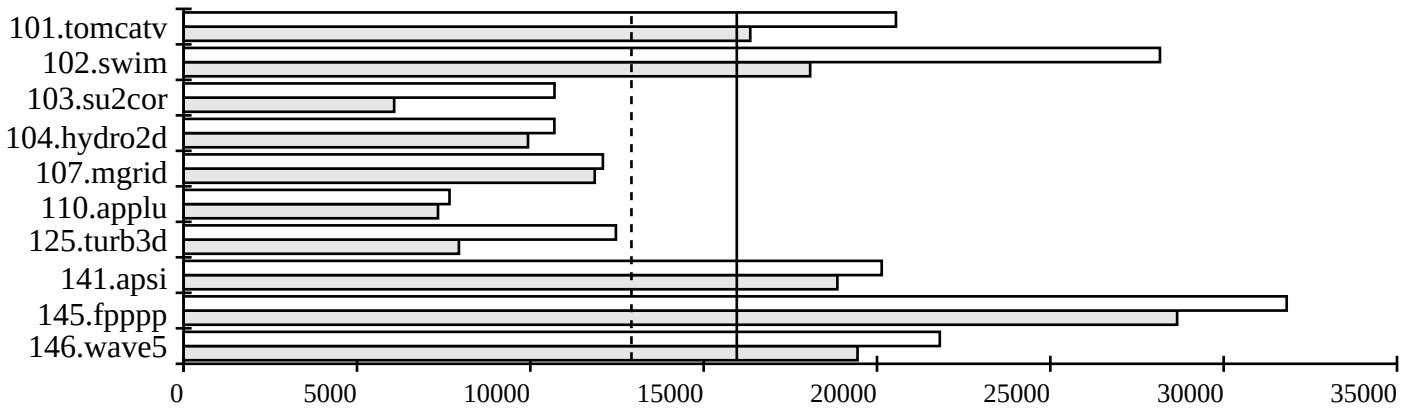
Compaq Computer Corporation
AlphaServer GS320 6/731

SPECfp_rate95 = 15956

SPECfp_rate_base95 = 12917

SPEC license # 2 | Tested By: Compaq NH | Test Date: Apr-2000 | Hardware Avail: Jul-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):	32
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB per CPU
Other Cache:	none
Memory:	64GB (8x8GB)
Disk Subsystem:	mfs (Memory File System)
Other Hardware:	Ethernet

Software

Operating System:	Tru64 Unix V5.1 (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	32	65.2	16344	32	52	20547
102.swim	32	137	18072	32	88	28162
103.su2cor	32	66.4	6072	32	38	10697
104.hydro2d	32	69.6	9933	32	65	10694
107.mgrid	32	60.7	11858	32	60	12093
110.applu	32	86.4	7337	32	83	7669
125.turb3d	32	149	7940	32	95	12468
141.apsi	32	32.1	18858	32	30	20136
145.fpppp	32	96.5	28658	32	87	31818
146.wave5	32	44.4	19439	32	40	21811
SPECfp_rate_base95 (G. Mean)			12917			
SPECfp_rate95 (G. Mean)						15956

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'
submit# = runon (CPU#) %command%

Tru64 Unix V5.1 will ship in Jul-2000 for use on the GS160, GS320 platforms;
the final version will ship Sep-2000
```