SPEC CFP95 Results

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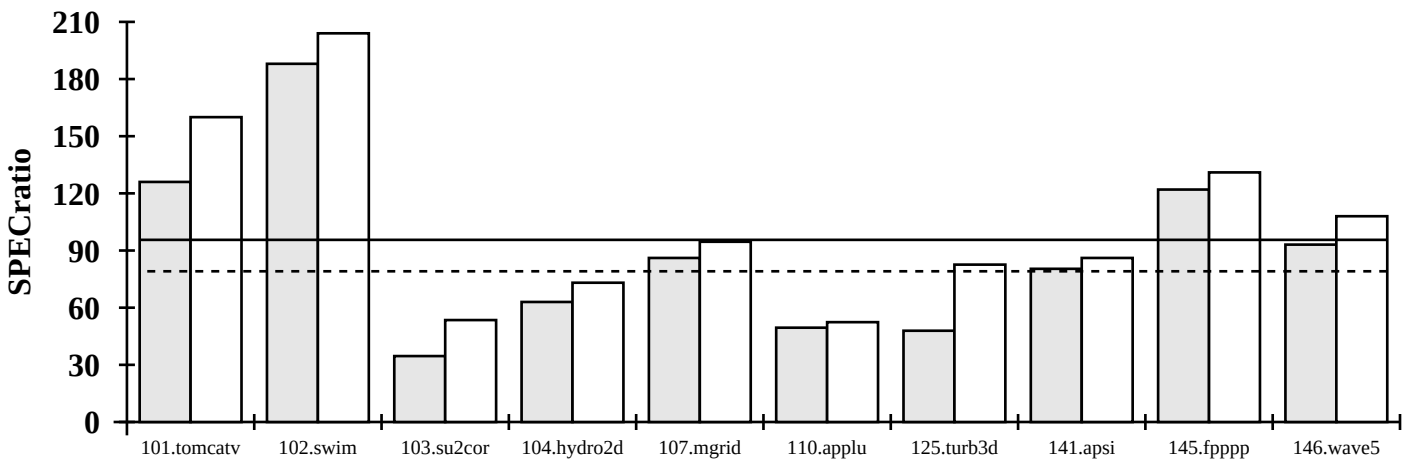
Alpha Processor, Inc.
API UP2000 833 MHz

SPECfp95 = 95.6

SPECfp_base95 = 79.1

SPEC license # 537 | Tested By: Tom Morris | Test Date: 28-Jun-2000 | Hardware Avail: Oct-2000 | Software Avail: Dec-1999



Hardware/Software Configuration for:
API UP2000 833 MHz

Hardware

Model Name:	API UP2000 833 MHz
CPU:	833 MHz 21264A
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	8MB (I+D) off chip
Other Cache:	none
Memory:	512 MB
Disk Subsystem:	1x 9 GB Ultra2 SCSI
Other Hardware:	Ethernet

Software

Operating System:	Tru64 Unix V4.0F
Compiler:	Fortran V5.3 KAP Fortran V4.2
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	29.5	126	23	160
102.swim	8600	45.8	188	42	204
103.su2cor	1400	40.4	34.6	26	53.5
104.hydro2d	2400	38.1	63.0	33	73.1
107.mgrid	2500	29.0	86.1	26	94.6
110.applu	2200	44.4	49.5	42	52.4
125.turb3d	4100	85.5	47.9	50	82.6
141.apsi	2100	26.1	80.4	24	86.1
145.fpppp	9600	78.7	122	73	131
146.wave5	3000	32.2	93.1	28	108
SPECfp_base95 (G. Mean)			79.1		
		SPECfp95 (G. Mean)			95.6

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
applu:   kf90 -arch ev6 -transform_loops -automatic -fkapargs='
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'
```