SPEC CFP95 Results

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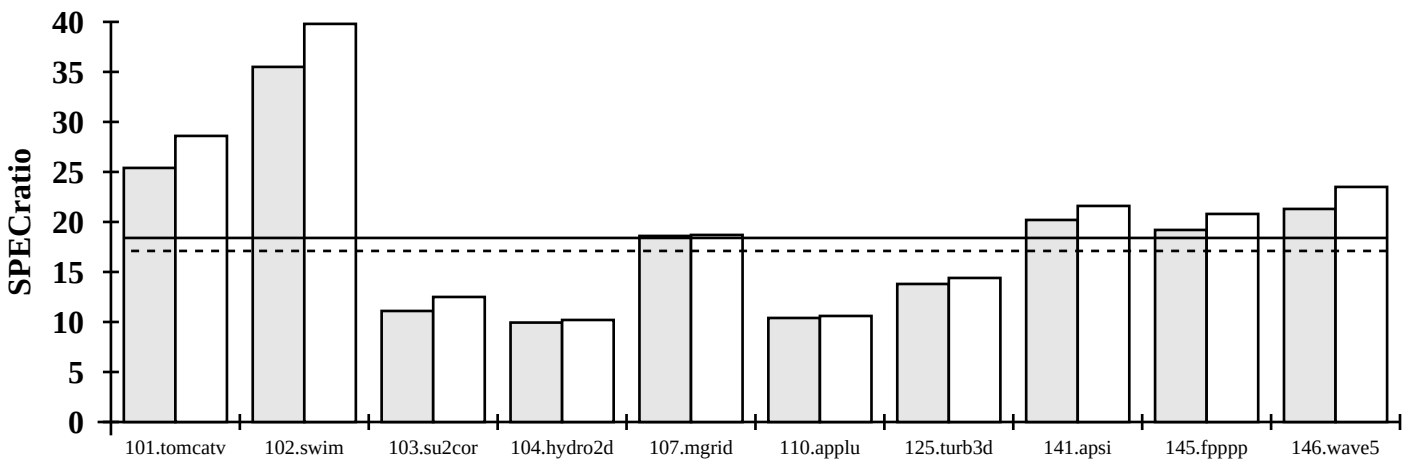
Sun Microsystems
Ultra 60 296MHz

SPECfp95 = 18.4

SPECfp_base95 = 17.1

SPEC license # 6	Tested By: Sun, Palo Alto	Test Date: Jan-98	Hardware Avail: Mar-98	Software Avail: May-98



Hardware/Software Configuration for:
Ultra 60 296MHz

Hardware

Model Name:	Ultra 60 296MHz
CPU:	296MHz UltraSPARC-II
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	2.0MB(I+D) off chip
Other Cache:	None
Memory:	512MB
Disk Subsystem:	2 x 4GB
Other Hardware:	Fast Ethernet
	System clock frequency: 99 MHz

Software

Operating System:	Solaris 2.5.1 HW 1197
Compiler:	Sun f77 5.0 alpha
File System:	UFS
System State:	Single User

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	146	25.4	129	28.6
102.swim	8600	242	35.5	216	39.8
103.su2cor	1400	126	11.1	112	12.5
104.hydro2d	2400	241	9.94	234	10.2
107.mgrid	2500	134	18.6	134	18.7
110.applu	2200	211	10.4	207	10.6
125.turb3d	4100	298	13.8	284	14.4
141.apsi	2100	104	20.2	97	21.6
145.fpppp	9600	500	19.2	463	20.8
146.wave5	3000	141	21.3	128	23.5
SPECfp_base95 (G. Mean)			17.1		
		SPECfp95 (G. Mean)			18.4

Notes/Tuning Information

```
BCOPY=-Qoption iropt -O4+bcopy; INV=-Qoption iropt -O4+invccexp; BMR=-Qoption iropt -O4+bmerge
Baseline:    -fast -xarch=v8plusa -fsimple=2 -xprefetch
101.tomcatv: -fast -xarch=v8plusa -xpad=local:23 -xprefetch
102.swim:    -fast -xarch=v8plusa -xpad=common:15 -xprefetch -fsimple=2
103.su2cor:  -fast -xarch=v8plusa -xvector -Qoption cg -Qms_pipe+nfll=5
103 cont:    -fsimple=2  ${BCOPY} -lmvec
104.hydro2d: -fast -xarch=v8plusa -xprefetch -Qoption iropt -O4+pde
104 cont:    -fsimple=2 -xprofile=use
107.mgrid:   -fast -xarch=v8plusa -xprefetch -fsimple=2 ${BCOPY}
110.applu:   -fast -xarch=v8plusa -Qoption iropt
110 cont:    -O4+ddint+scalarrep,-ldstr -fsimple=2
125.turb3d:  -fast -xarch=v8plusa -stackvar -xpad -fsimple=2
125 cont:    ${INV}
141.apsi:    -fast -xarch=v8plusa -fsimple=2 -stackvar  -Qoption iropt
141 cont:    -Si36 ${INV} -Qoption iropt -O4+algassoc
145.fpppp:   -fast -xarch=v8plusa -xO5 -xsafe=mem -fsimple=2
145 cont:    -Qoption iropt -O4+algassoc -xprofile=use
146.wave5:   -fast -xarch=v8plusa  -stackvar -fsimple=2 -Qoption iropt
146 cont:    -O4+unroll ${BCOPY}
```

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