SPEC CFP95 Results

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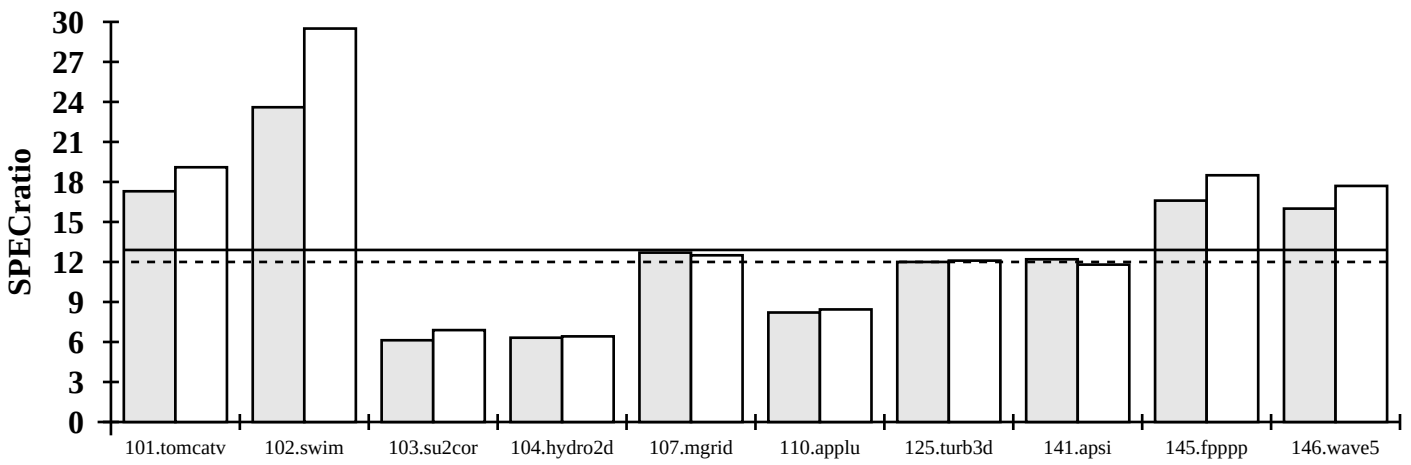
Sun Microsystems
Ultra 10 300MHz

SPECfp95 = 12.9

SPECfp_base95 = 12.0

SPEC license # 6	Tested By: Sun, Palo Alto	Test Date: Dec-97	Hardware Avail: Jan-98	Software Avail: May-98



Hardware/Software Configuration for:
Ultra 10 300MHz

Hardware

Model Name:	Ultra 10 300MHz
CPU:	300MHz UltraSPARC-IIi
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	0.5MB(I+D) off chip
Other Cache:	None
Memory:	512MB
Disk Subsystem:	2 x 4.01GB
Other Hardware:	Fast Ethernet
	System clock frequency: 100 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	214	17.3	193	19.1
102.swim	8600	365	23.6	292	29.5
103.su2cor	1400	228	6.13	203	6.89
104.hydro2d	2400	379	6.32	374	6.42
107.mgrid	2500	198	12.7	200	12.5
110.applu	2200	268	8.21	261	8.44
125.turb3d	4100	342	12.0	339	12.1
141.apsi	2100	172	12.2	178	11.8
145.fpppp	9600	577	16.6	518	18.5
146.wave5	3000	188	16.0	170	17.7
SPECfp_base95 (G. Mean)			12.0		
		SPECfp95 (G. Mean)			12.9

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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