SPEC CFP95 Results

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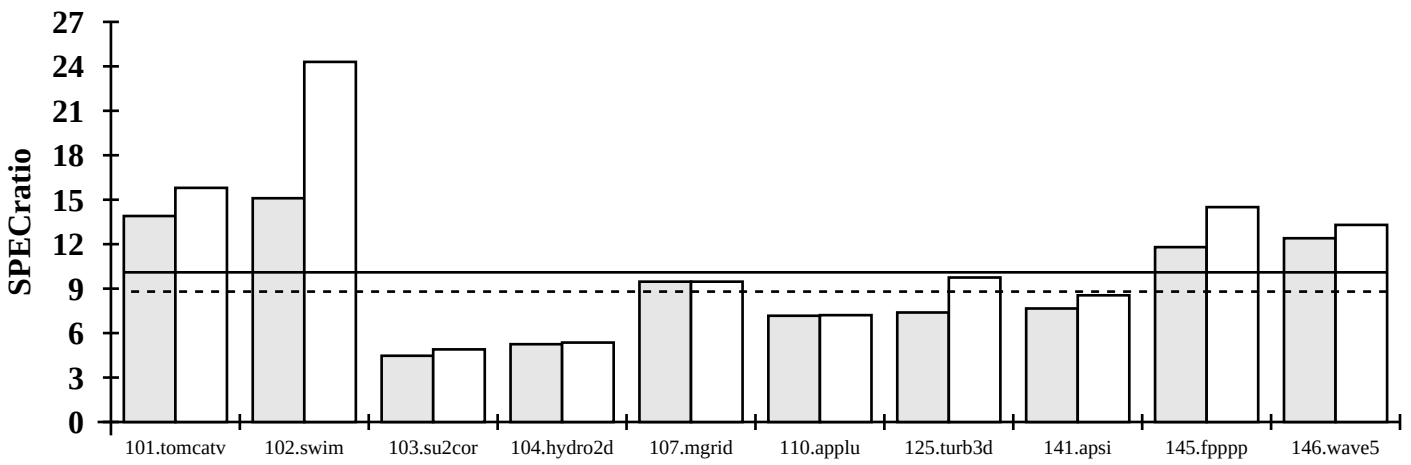
Sun Microsystems
Ultra 5 270MHz

SPECfp95 = 10.1

SPECfp_base95 = 8.80

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 5 270MHz

Hardware

Model Name:	Ultra 5 270MHz
CPU:	270MHz UltraSPARC-IIi
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	256KB(I+D) off chip
Other Cache:	None
Memory:	512MB
Disk Subsystem:	1 x 4.01GB
Other Hardware:	Fast Ethernet
	System clock frequency: 90 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	266	13.9	234	15.8
102.swim	8600	570	15.1	354	24.3
103.su2cor	1400	313	4.47	286	4.90
104.hydro2d	2400	457	5.25	448	5.36
107.mgrid	2500	264	9.47	264	9.47
110.applu	2200	307	7.17	305	7.21
125.turb3d	4100	555	7.39	420	9.75
141.apsi	2100	274	7.66	246	8.55
145.fpppp	9600	811	11.8	662	14.5
146.wave5	3000	241	12.4	225	13.3
SPECfp_base95 (G. Mean)			8.80		
		SPECfp95 (G. Mean)			10.1

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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