SPEC CFP95rate Results

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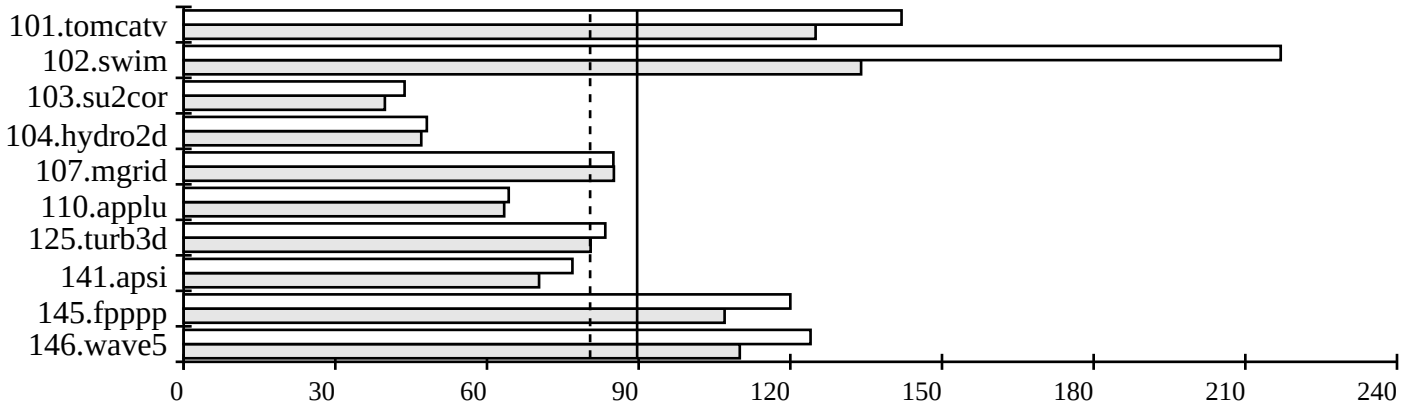
Sun Microsystems
Ultra 5 270MHz

SPECfp_rate95	=	89.7
SPECfp_rate_base95	=	80.4

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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	2	534	125	2	470	142
102.swim	2	1153	134	2	714	217
103.su2cor	2	633	39.8	2	576	43.7
104.hydro2d	2	919	47.0	2	898	48.1
107.mgrid	2	529	85.1	2	529	85.0
110.applu	2	625	63.4	2	616	64.3
125.turb3d	2	917	80.5	2	885	83.4
141.apsi	2	537	70.3	2	492	76.9
145.fpppp	2	1611	107	2	1439	120
146.wave5	2	493	110	2	437	124
SPECfp_rate_base95 (G. Mean)			80.4			
SPECfp_rate95 (G. Mean)						89.7

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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