SPEC CFP95rate Results

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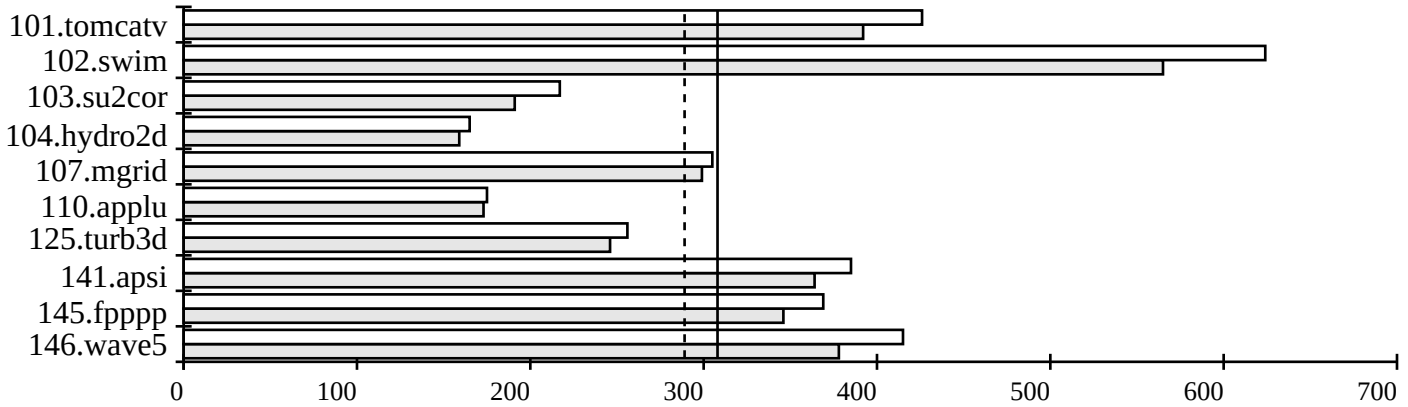
Sun Microsystems
Ultra 60 296MHz

SPECfp_rate95 = 308

SPECfp_rate_base95 = 289

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):	2
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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	2	170	392	2	156	426
102.swim	2	274	565	2	248	624
103.su2cor	2	132	191	2	116	217
104.hydro2d	2	271	159	2	262	165
107.mgrid	2	151	299	2	148	305
110.applu	2	229	173	2	226	175
125.turb3d	2	300	246	2	288	256
141.apsi	2	104	364	2	98	385
145.fpppp	2	500	346	2	469	369
146.wave5	2	143	378	2	130	415
SPECfp_rate_base95 (G. Mean)			289			
			SPECfp_rate95 (G. Mean)			308

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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