SPEC CFP95 Results

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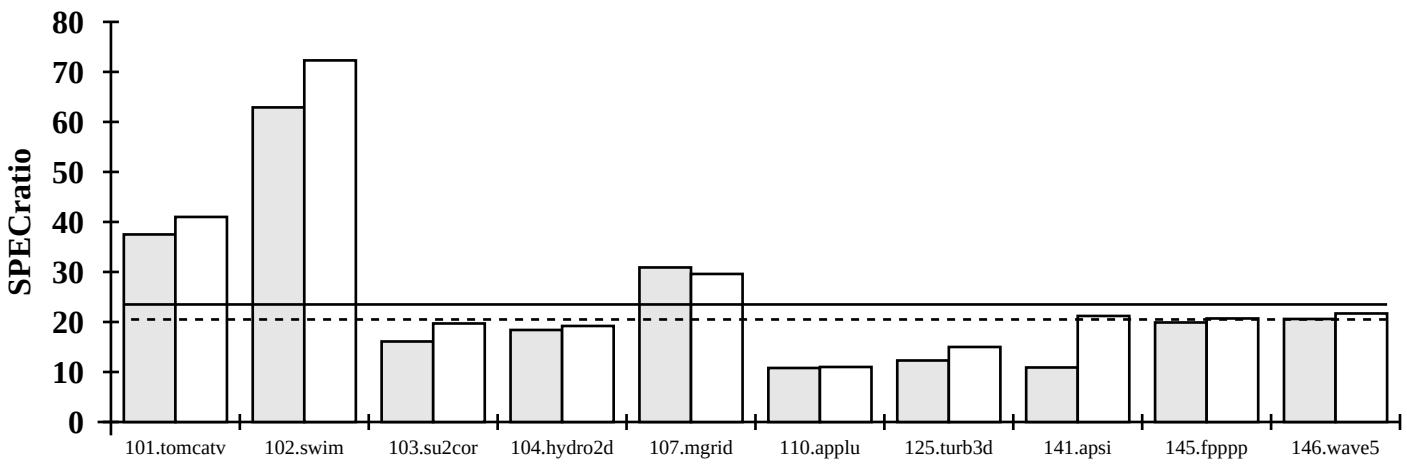
Sun Microsystems
Ultra 60 296MHz

SPECfp95 = 23.5

SPECfp_base95 = 20.5

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	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	98.5	37.5	90	41.0
102.swim	8600	137	62.9	119	72.3
103.su2cor	1400	87.1	16.1	71	19.7
104.hydro2d	2400	130	18.4	125	19.2
107.mgrid	2500	80.9	30.9	84	29.6
110.applu	2200	204	10.8	200	11.0
125.turb3d	4100	333	12.3	274	15.0
141.apsi	2100	193	10.9	99	21.2
145.fpppp	9600	482	19.9	463	20.7
146.wave5	3000	146	20.6	138	21.7
SPECfp_base95 (G. Mean)			20.5		
		SPECfp95 (G. Mean)			23.5

Notes/Tuning Information

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

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