SPEC CFP95 Results

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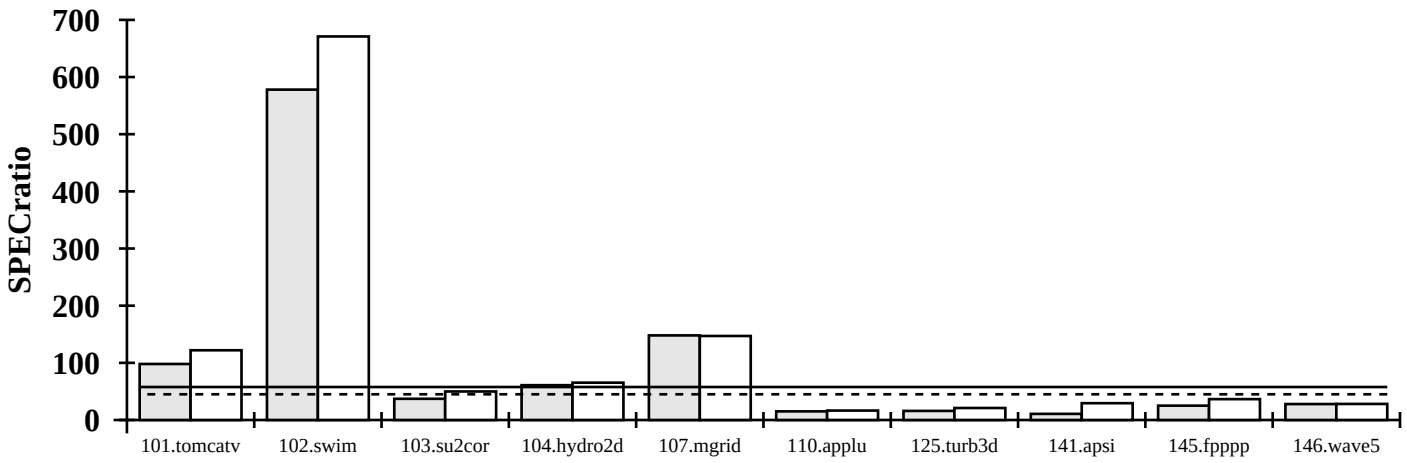
Sun Microsystems
Sun Enterprise 3500/4500

SPECfp95 = 57.7

SPECfp_base95 = 45.0

SPEC license # 6	Tested By: Sun, Palo Alto	Test Date: Mar-99	Hardware Avail: May-99	Software Avail: Mar-99



Hardware/Software Configuration for:
Sun Enterprise 3500/4500

Hardware

Model Name:	Sun Enterprise 3500/4500
CPU:	400MHz UltraSPARC II
FPU:	Integrated
Number of CPU(s):	8
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	8MB(I+D) off chip per CPU
Other Cache:	None
Memory:	8GB
Disk Subsystem:	2 x 9GB
Other Hardware:	FastEthernet

Software

Operating System:	Solaris7_64bit
Compiler:	Sun F77 5.0
File System:	UFS
System State:	Multi-User
Kernel Extensions:	

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	37.7	98.0	30	122
102.swim	8600	14.9	578	13	671
103.su2cor	1400	37.7	37.1	28	49.9
104.hydro2d	2400	39.4	60.9	37	65.3
107.mgrid	2500	16.9	148	17	147
110.applu	2200	145	15.1	133	16.5
125.turb3d	4100	258	15.9	195	21.0
141.apsi	2100	195	10.7	71	29.4
145.fpppp	9600	383	25.1	263	36.5
146.wave5	3000	107	27.9	107	28.1
SPECfp_base95 (G. Mean)			45.0		
		SPECfp95 (G. Mean)			57.7

Notes/Tuning Information

```
BCOPY =  -Qoption iropt -O4+bcopy
INV =    -Qoption iropt -O4+invccexp
FULTRA = -xarch=v8plusa -xchip=ultra
Baseline: -fast -xarch=v8plusa -xprefetch  -xparallel
101.tomcatv: -fast ${FULTRA} -xpad=local:23 -xprefetch -xreduction -xparallel
102.swim: -fast ${FULTRA} -xpad=common:15 -xprefetch -fsimple=2 -xparallel
103.su2cor: -fast ${FULTRA} -xvector -Qoption cg -Qms_pipe+nfll=5 -fsimple=2 -xprefetch ${BCOPY} -xreduction -xparallel -lmvec
104.hydro2d: -fast ${FULTRA} -xprefetch -Qoption iropt -O4+pde -fsimple=2 -xprofile=use  -xparallel
107.mgrid: -fast ${FULTRA} -xprefetch -fsimple=2 ${BCOPY} -xparallel
110.applu: -fast ${FULTRA} -fsimple=2 -xparallel
110 cont: -Qoption iropt -O4+ddint+scalarrep+perfect+loop_dist+pde+algassoc,-Mt6000,-Mr20000,-Ma140,-ldstr
125.turb3d: -fast ${FULTRA} -stackvar -xpad -fsimple=2 -Qoption iropt -O4+bcopy ${INV} -xvector=yes
141.apsi: -fast ${FULTRA} -fsimple=2 -stackvar -Qoption iropt -Si36 ${INV} -Qoption iropt -O4+algassoc
145.fpppp: -fast ${FULTRA} -xO5 -xsafe=mem -fsimple=2
145 cont: -Qoption iropt -O4+algassoc -Qoption iropt -reroll=1 -xprofile=use
146.wave5: -fast ${FULTRA}  -stackvar -fsimple=2 -Qoption iropt -O4+unroll ${BCOPY}
```

For More Information Contact: SPEC info@spec.org http://www.spec.org/