SPEC CFP95 Results

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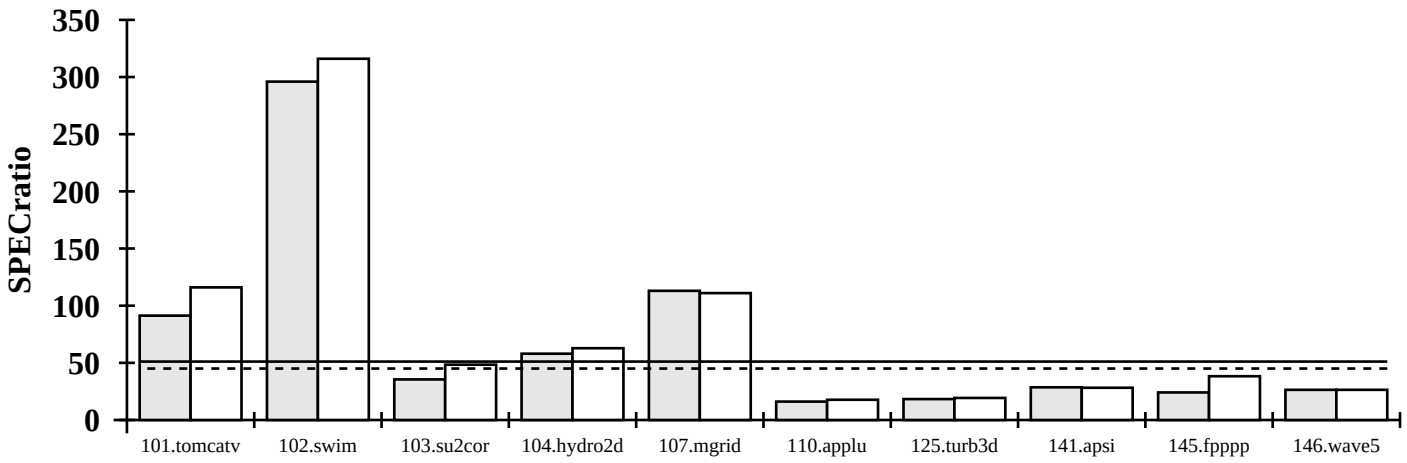
Sun Microsystems
Sun Enterprise 4500

SPECfp95 = 51.1

SPECfp_base95 = 45.0

SPEC license # 6	Tested By: Sun, Palo Alto	Test Date: Sep-98	Hardware Avail: Dec-98	Software Avail: Oct-98



Hardware/Software Configuration for:
Sun Enterprise 4500

Hardware

Model Name:	Sun Enterprise 4500
CPU:	400MHz UltraSPARC II
FPU:	Integrated
Number of CPU(s):	10
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	4096KB(I+D) off chip
Other Cache:	None
Memory:	8192MB
Disk Subsystem:	2 x 9GB
Other Hardware:	FastEthernet

Software

Operating System:	Solaris 2.7
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	40.5	91.3	32	116
102.swim	8600	29.1	296	27	316
103.su2cor	1400	39.4	35.5	29	48.4
104.hydro2d	2400	41.3	58.0	38	62.8
107.mgrid	2500	22.1	113	22	111
110.applu	2200	136	16.1	124	17.7
125.turb3d	4100	224	18.3	213	19.3
141.apsi	2100	73.3	28.6	74	28.2
145.fpppp	9600	398	24.1	251	38.3
146.wave5	3000	113	26.4	114	26.4
SPECfp_base95 (G. Mean)			45.0		
		SPECfp95 (G. Mean)			51.1

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 -xparallel -xreduction
102.swim: -fast ${FULTRA} -xpad=common:15 -xprefetch -fsimple=2 -xparallel
103.su2cor: -fast ${FULTRA} -xvector -Qoption cg -Qms_pipe+nfll=5
103 cont: -fsimple=2 -xprefetch ${BCOPY} -xparallel -xreduction -lmvec
104.hydro2d: -fast ${FULTRA} -xprefetch -Qoption iropt -O4+pde -fsimple=2 -xprofile=use -xparallel
107.mgrid: -fast ${FULTRA} -xprefetch ${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
141 cont: -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}
Config Version @(#)udm.cfg 1.0 98/09/03
```

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-- Prepared By: --