SPEC CFP95rate Results

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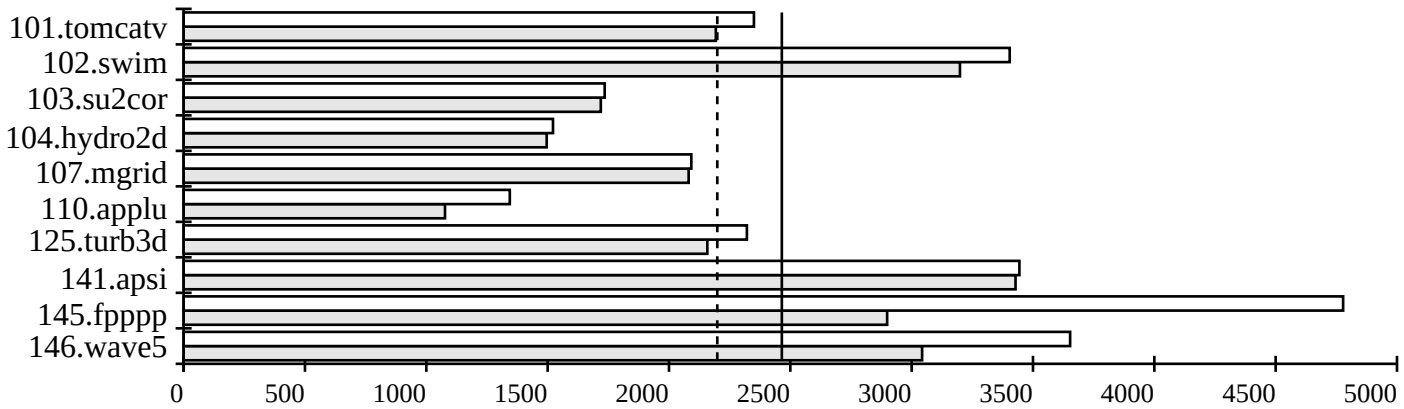
Sun Microsystems
Sun Enterprise 4500

SPECfp_rate95 = 2465

SPECfp_rate_base95 = 2199

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



SPECrate

Hardware/Software Configuration for:
Sun Enterprise 4500

Hardware

Model Name:	Sun Enterprise 4500
CPU:	400MHz UltraSPARC II
FPU:	Integrated
Number of CPU(s):	14
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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	14	213	2193	14	198	2350
102.swim	14	339	3199	14	318	3404
103.su2cor	14	103	1719	14	102	1735
104.hydro2d	14	202	1496	14	199	1522
107.mgrid	14	151	2081	14	151	2092
110.applu	14	257	1077	14	206	1344
125.turb3d	14	239	2158	14	223	2321
141.apsi	14	77.2	3428	14	77	3444
145.fpppp	14	417	2899	14	253	4778
146.wave5	14	124	3043	14	103	3653
SPECfp_rate_base95 (G. Mean)			2199			
			SPECfp_rate95 (G. Mean)			2465

Notes/Tuning Information

```
BCOPY =  -Qoption iropt -O4+bcopy
INV =    -Qoption iropt -O4+invccexp
FULTRA = -xarch=v8plusa -xchip=ultra
Baseline: -fast -xarch=v8plusa -fsimple=2 -xprefetch
101.tomcatv: -fast ${FULTRA} -xpad=local:23 -xprefetch
102.swim: -fast ${FULTRA} -xpad=common:15 -xprefetch -fsimple=2
103.su2cor: -fast ${FULTRA} -xvector -Qoption cg -Qms_pipe+nfll=5
103 cont: -fsimple=2 -xprefetch ${BCOPY} -lmvec
104.hydro2d: -fast ${FULTRA} -xprefetch -Qoption iropt -O4+pde -fsimple=2 -xprofile=use
107.mgrid: -fast ${FULTRA} -xprefetch -fsimple=2 ${BCOPY}
110.applu: -fast ${FULTRA} -fsimple=2
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 @(#)uds.cfg 1.0 98/09/03
```

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-- Prepared By: --