SPEC CFP95rate Results

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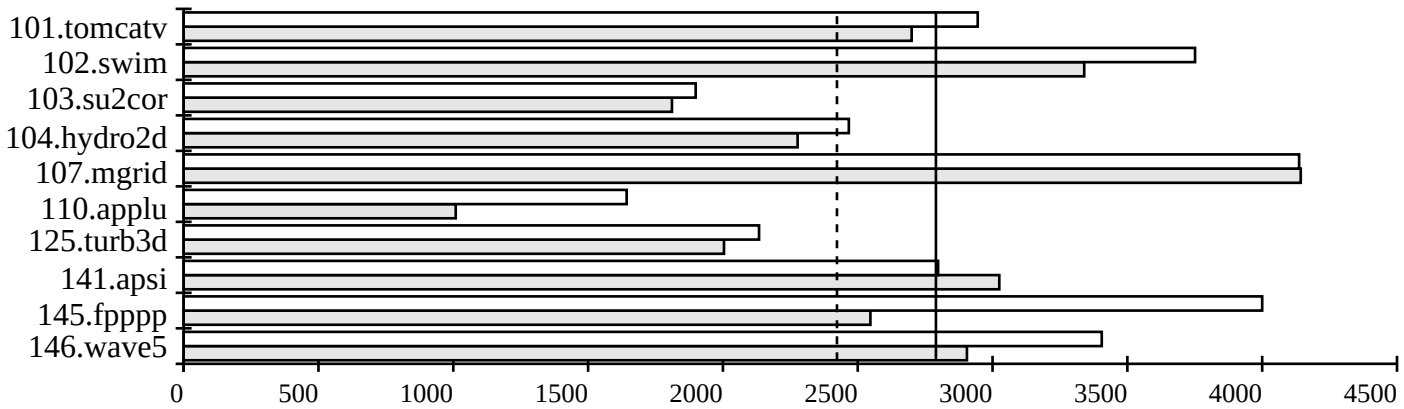
Sun Microsystems
Sun Enterprise 4500

SPECfp_rate95 = 2790

SPECfp_rate_base95 = 2423

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



SPECrate

Hardware/Software Configuration for:
Sun Enterprise 4500

Hardware

Model Name:	Sun Enterprise 4500
CPU:	400MHz UltraSPARC II
FPU:	Integrated
Number of CPU(s):	12
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	8MB(I+D) off chip per CPU
Other Cache:	None
Memory:	12GB
Disk Subsystem:	6 x 4GB
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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	12	148	2700	12	136	2945
102.swim	12	278	3340	12	248	3751
103.su2cor	12	83.5	1811	12	80	1899
104.hydro2d	12	114	2277	12	105	2467
107.mgrid	12	65.2	4143	12	65	4137
110.applu	12	235	1009	12	145	1643
125.turb3d	12	221	2004	12	207	2134
141.apsi	12	75.0	3025	12	81	2798
145.fpppp	12	407	2547	12	259	4000
146.wave5	12	112	2905	12	95	3405
SPECfp_rate_base95 (G. Mean)			2423			
			SPECfp_rate95 (G. Mean)			2790

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 -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 -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}
```

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