SPEC CFP95rate Results

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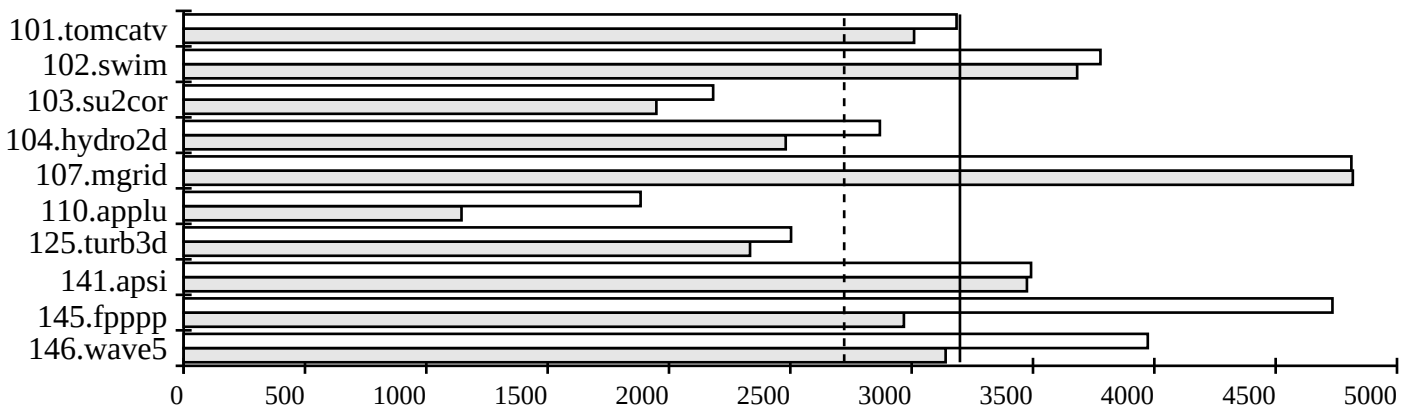
Sun Microsystems
Sun Enterprise 4500

SPECfp_rate95 = 3199

SPECfp_rate_base95 = 2722

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):	14
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	8MB(I+D) off chip per CPU
Other Cache:	None
Memory:	14GB
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	14	155	3010	14	146	3185
102.swim	14	294	3682	14	287	3778
103.su2cor	14	90.6	1948	14	81	2182
104.hydro2d	14	122	2481	14	105	2869
107.mgrid	14	65.4	4818	14	65	4812
110.applu	14	242	1145	14	147	1883
125.turb3d	14	221	2334	14	206	2503
141.apsi	14	76.1	3475	14	76	3492
145.fpppp	14	408	2968	14	256	4734
146.wave5	14	120	3140	14	95	3973
SPECfp_rate_base95 (G. Mean)			2722			
SPECfp_rate95 (G. Mean)						3199

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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