SPEC CFP95rate Results

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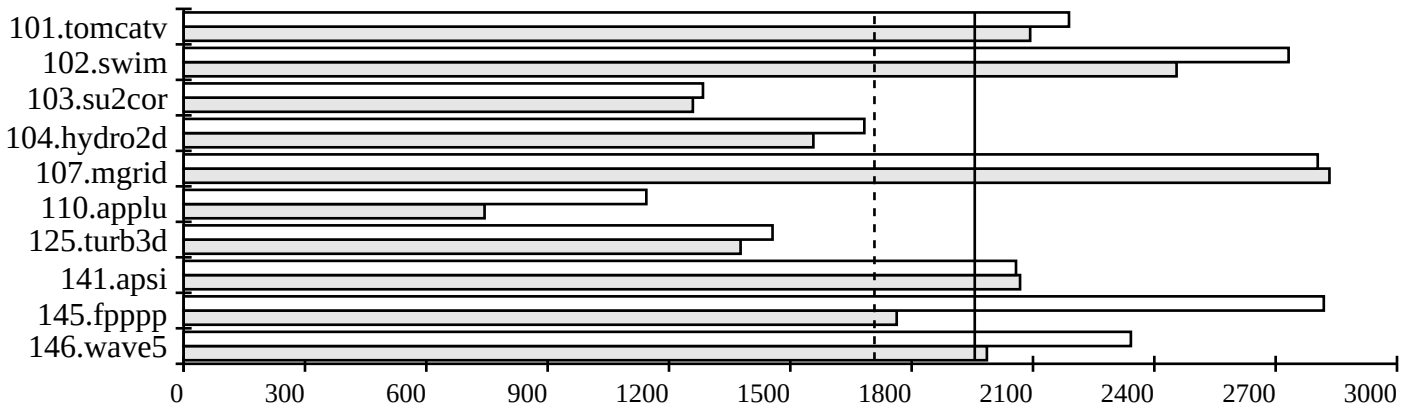
Sun Microsystems
Sun Enterprise 3500/4500

SPECfp_rate95 = 1956

SPECfp_rate_base95 = 1708

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 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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	8	127	2093	8	122	2189
102.swim	8	252	2455	8	227	2732
103.su2cor	8	80.1	1259	8	78	1284
104.hydro2d	8	111	1557	8	103	1683
107.mgrid	8	63.5	2833	8	64	2804
110.applu	8	213	744	8	139	1144
125.turb3d	8	214	1377	8	203	1456
141.apsi	8	73.1	2068	8	73	2058
145.fpppp	8	392	1763	8	245	2819
146.wave5	8	109	1986	8	92	2342
SPECfp_rate_base95 (G. Mean)			1708			
SPECfp_rate95 (G. Mean)						1956

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}
```

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