SPEC CFP95rate Results

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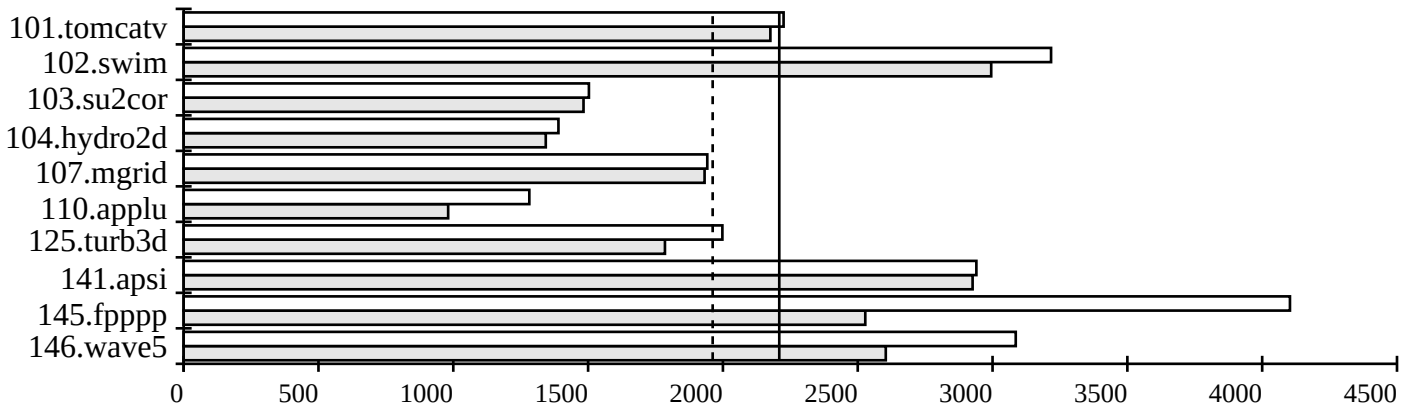
Sun Microsystems
Sun Enterprise 4500

SPECfp_rate95 = 2209

SPECfp_rate_base95 = 1962

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):	12
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	12	184	2176	12	180	2225
102.swim	12	310	2995	12	289	3217
103.su2cor	12	102	1483	12	101	1503
104.hydro2d	12	193	1343	12	186	1390
107.mgrid	12	140	1932	12	139	1942
110.applu	12	242	981	12	185	1282
125.turb3d	12	248	1785	12	222	1998
141.apsi	12	77.5	2926	12	77	2940
145.fpppp	12	410	2528	12	253	4103
146.wave5	12	124	2604	12	105	3086
SPECfp_rate_base95 (G. Mean)			1962			
			SPECfp_rate95 (G. Mean)			2209

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
```

For More Information Contact:
SPEC
10754 Ambassador Drive, Suite 201
Manassas, VA 20109
(703) 331-0180
info@specbench.org
http://www.specbench.org/

-- Prepared By: --