SPEC CFP95rate Results

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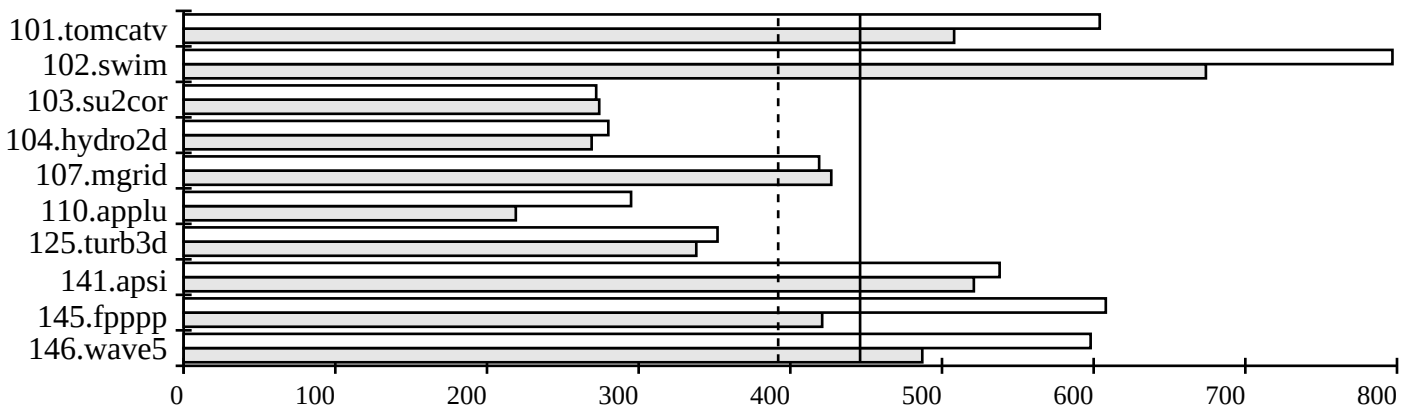
Sun Microsystems
Sun Enterprise 450

SPECfp_rate95 = 446

SPECfp_rate_base95 = 392

SPEC license # 6	Tested By: Sun, Palo Alto	Test Date: Oct-98	Hardware Avail: Nov-98	Software Avail: Feb-99



Hardware/Software Configuration for:
Sun Enterprise 450

Hardware

Model Name:	Sun Enterprise 450
CPU:	400 MHz UltraSPARC-II
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	4MB (I+D) off chip
Other Cache:	None
Memory:	512MB
Disk Subsystem:	2 x 4.2GB
Other Hardware:	Fast Ethernet

Software

Operating System:	Solaris 7 (kernel/unix)
Compiler:	Sun f77 5.0 Early Access
File System:	UFS
System State:	Single User
Kernel Extensions:	consistent_coloring=1

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	2	131	508	2	110	604
102.swim	2	230	674	2	194	797
103.su2cor	2	92.1	274	2	93	272
104.hydro2d	2	161	269	2	154	280
107.mgrid	2	105	427	2	108	419
110.applu	2	181	219	2	134	295
125.turb3d	2	218	338	2	210	352
141.apsi	2	72.5	521	2	70	538
145.fpppp	2	410	421	2	284	608
146.wave5	2	111	487	2	90	598
SPECfp_rate_base95 (G. Mean)			392			
SPECfp_rate95 (G. Mean)						446

Notes/Tuning Information

```
P1= -xprofile=collect:‘pwd‘/../feedback; P2= -xprofile=use:‘pwd‘/../feedback
BCOPY=-Qoption iropt -O4+bcopy; INV=-Qoption iropt -O4+invccexp
Baseline:    -fast -xarch=v8plusa -fsimple=2 -xprefetch
101.tomcatv: -fast -xarch=v8plusa -xpad=local:23 -xprefetch -Qoption iropt -O4+data_access
102.swim:    -fast -xarch=v8plusa -xpad=common:15 -xprefetch -fsimple=2
103.su2cor:  -fast -xarch=v8plusa -xvector -Qoption cg -Qms_pipe+nfll=5 -fsimple=2  ${BCOPY}
103.su2cor:  PASS1= -xO4 ${P1}; PASS2= -xO5 -xsafe=mem ${P2};
104.hydro2d: -fast -xarch=v8plusa -xprefetch -Qoption iropt -O4+pde -fsimple=2
104.hydro2d:  PASS1= ${P1}; PASS2= ${P2};
107.mgrid:   -fast -xarch=v8plusa -xprefetch -fsimple=2  ${BCOPY}
107.mgrid:   PASS1= -xO4 ${P1}; PASS2= -xO5 -xsafe=mem ${P2};
110.applu:   -fast -xarch=v8plusa -Qoption iropt -O4+scalarrep+ddint+perfect+loop_dist+pde+algassoc,-Mt6000,-Mr20000,-Ma140,-ldstr -fsimple=2
125.turb3d:  -fast -xarch=v8plusa -stackvar -xpad -fsimple=2 -Qoption iropt -04+bcopy ${INV} -xvector=yes
125.turb3d:  PASS1= -xO4 ${P1}; PASS2= -xO5 -xsafe=mem ${P2};
141.apsi:    -fast -xarch=v8plusa -xchip=ultra3 -fsimple=2 -stackvar  -Qoption iropt -Si36
141.apsi: ${INV} -Qoption iropt -O4+algassoc; PASS1= -xO4 ${P1}; PASS2= -xO5 -xsafe=mem ${P2};
145.fpppp:   -fast -xarch=v8plusa -xO5 -xsafe=mem -fsimple=2 -nodepend -Qoption iropt -O4+algassoc -Qoption iropt -reroll=1
145.fpppp:   PASS1= ${P1}; PASS2= ${P2};
146.wave5:   -fast -xarch=v8plusa  -stackvar -fsimple=2 -Qoption iropt -O4+unroll ${BCOPY}
Shell limits: # ulimit -n 1024  or % limit descriptors 1024
Config file: 2CPU.r.E450_DT.pub.int.fp_2.cfg
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