SPEC CFP95rate Results

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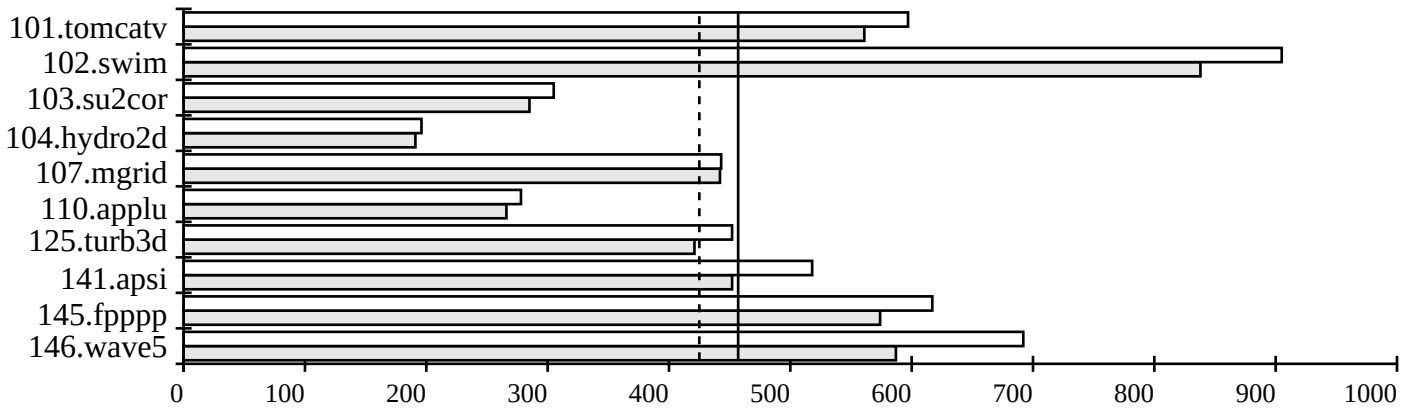
Sun Microsystems
Sun Ultra Enterprise 450

SPECfp_rate95 = 457

SPECfp_rate_base95 = 425

SPEC license # 6	Tested By: Sun, Mountain View	Test Date: Jul-97	Hardware Avail: Aug-97	Software Avail: Nov-97



Hardware/Software Configuration for:
Sun Ultra Enterprise 450

Hardware

Model Name:	Sun Ultra Enterprise 450
CPU:	248MHz UltraSPARC
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	2048KB(I+D) off chip
Other Cache:	None
Memory:	512MB
Disk Subsystem:	1 x 4GB
Other Hardware:	Ethernet

Software

Operating System:	Solaris 2.6
Compiler:	Sun f77 5.0 Alpha
File System:	UFS
System State:	Single User
Kernel Extensions:	

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	4	237	561	4	223	597
102.swim	4	369	838	4	342	905
103.su2cor	4	177	285	4	165	305
104.hydro2d	4	451	191	4	441	196
107.mgrid	4	204	442	4	203	443
110.applu	4	298	266	6	428	278
125.turb3d	4	350	421	6	490	452
141.apsi	4	167	452	4	146	518
145.fpppp	4	602	574	8	1120	617
146.wave5	4	184	587	4	156	692
SPECfp_rate_base95 (G. Mean)			425			
SPECfp_rate95 (G. Mean)						457

Notes/Tuning Information

```
BCOPY =   -Qoption iropt -O4+bcopy
INV =     -Qoption iropt -O4+invccexp
BMR =     -Qoption iropt -O4+bmerge

Baseline:    -fast -xarch=v8plusa -fsimple=2 -xprefetch

101.tomcatv: -fast -xarch=v8plusa -xpad=local:23 -xprefetch
101 cont:
102.swim:    -fast -xarch=v8plusa -xpad=common:15 -xprefetch -fsimple=2
102 cont:
103.su2cor:  -fast -xarch=v8plusa -xvector -Qoption cg -Qms_pipe+nfll=5
103 cont:    -fsimple=2  ${BCOPY} -lmvec
104.hydro2d: -fast -xarch=v8plusa -xprefetch -Qoption iropt -O4+pde
104 cont:    -fsimple=2 -xprofile=use
107.mgrid:   -fast -xarch=v8plusa -xprefetch -fsimple=2 ${BCOPY}
110.applu:   -fast -xarch=v8plusa -Qoption iropt
110 cont:    -O4+ddint+scalarrep,-ldstr -fsimple=2
125.turb3d:  -fast -xarch=v8plusa -stackvar -xpad -fsimple=2
125 cont:    ${INV}
141.apsi:    -fast -xarch=v8plusa -fsimple=2 -stackvar  -Qoption iropt
141 cont:    -Si36 ${BMR} -Qoption iropt -O4+algassoc
145.fpppp:   -fast -xarch=v8plusa -xO5 -xsafe=mem -fsimple=2
145 cont:    -Qoption iropt -O4+algassoc -xprofile=use
146.wave5:   -fast -xarch=v8plusa  -stackvar -fsimple=2 -Qoption iropt
146 cont:    -O4+unroll ${BCOPY}
```

Submitted cb, http://wgs-perf.east/Programs/Ultra450/Private/Submit/SPECcpu95/4x250/Rate/CFP95.006.html

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