SPEC CFP95rate Results

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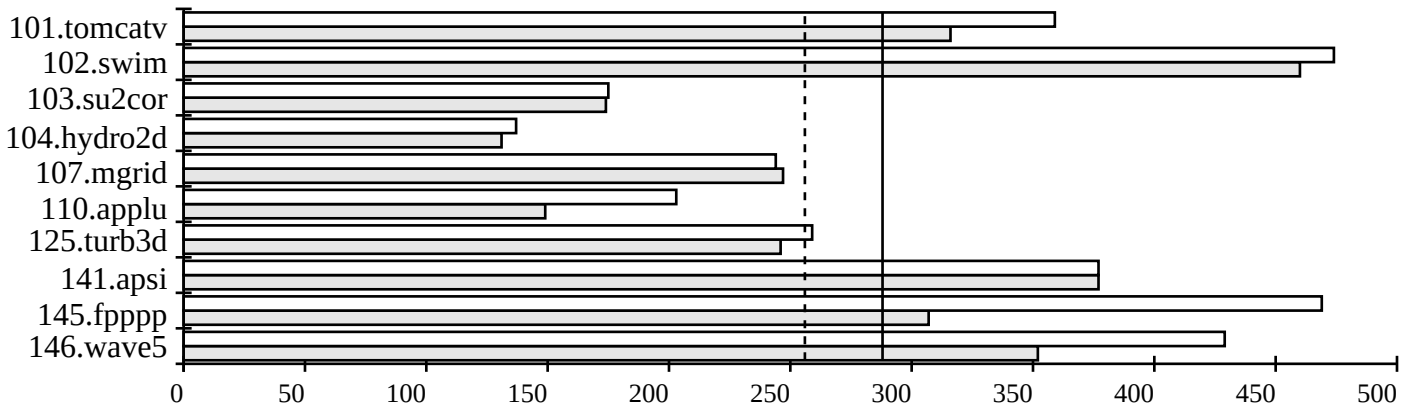
Sun Microsystems
Sun Enterprise 250

SPECfp_rate95 = 288

SPECfp_rate_base95 = 256

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



Hardware/Software Configuration for:
Sun Enterprise 250

Hardware

Model Name:	Sun Enterprise 250
CPU:	296 MHz UltraSPARC-II
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	2048KB (I+D) off chip
Other Cache:	None
Memory:	512MB
Disk Subsystem:	2 x 4.2GB
Other Hardware:	Fast Ethernet

Software

Operating System:	Solaris 2.6 Hardware 5/98 Patch 105591-03
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	211	316	2	185	359
102.swim	2	336	460	2	327	474
103.su2cor	2	145	174	2	144	175
104.hydro2d	2	331	131	2	316	137
107.mgrid	2	182	247	2	185	244
110.applu	2	266	149	2	195	203
125.turb3d	2	300	246	2	285	259
141.apsi	2	100	377	2	100	377
145.fpppp	2	562	307	2	369	469
146.wave5	2	153	352	2	126	429
SPECfp_rate_base95 (G. Mean)			256			
			SPECfp_rate95 (G. Mean)			288

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 -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} -lmvec
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}
110.applu: -fast -xarch=v8plusa -Qoption iropt -O4+scalarrep+ddint+perfect+loop_dist+pde+algassoc,
110 cont: -Mt6000,-Mr20000,-Ma140,-ldstr -fsimple=2
125.turb3d: -fast -xarch=v8plusa -stackvar -xpad -fsimple=2 -Qoption iropt
125 cont: -O4+bcopy ${INV} -xvector=yes
141.apsi: -fast -xarch=v8plusa -xchip=ultra3 -fsimple=2 -stackvar  -Qoption iropt
141 cont: -Si36  ${INV} -Qoption iropt -O4+algassoc
145.fpppp: -fast -xarch=v8plusa -xO5 -xsafe=mem -fsimple=2 -nodepend -Qoption iropt
145 cont: -O4+algassoc -Qoption iropt -reroll=1
145.fpppp: PASS1= ${P1}; PASS2= ${P2}
146.wave5: -fast -xarch=v8plusa  -stackvar -fsimple=2 -Qoption iropt
146 cont: -O4+unroll ${BCOPY}
P1= -xprofile=collect:‘pwd‘/../feedback; P2= -xprofile=use:‘pwd‘/../feedback
Shell limits: # ulimit -n 1024  or % limit descriptors 1024; Config file: E250.VG_fp.cfg 1.0 98/09/21
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