SPEC CFP95 Results

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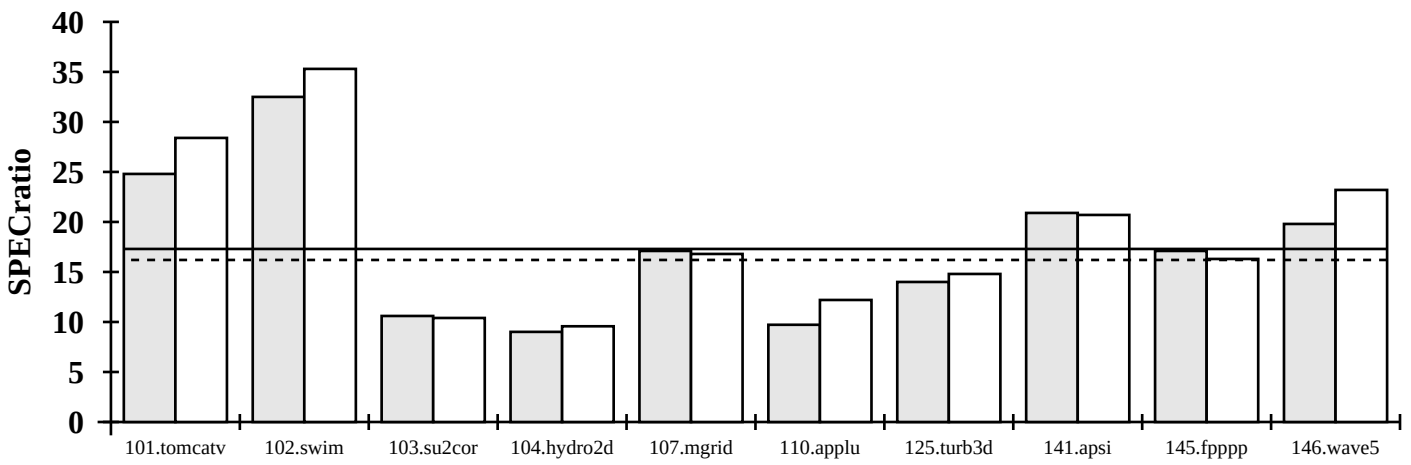
Sun Microsystems
Sun Enterprise 250

SPECfp95 = 17.3

SPECfp_base95 = 16.2

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):	1
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 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	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	149	24.8	130	28.4
102.swim	8600	265	32.5	244	35.3
103.su2cor	1400	133	10.6	134	10.4
104.hydro2d	2400	266	9.01	251	9.57
107.mgrid	2500	146	17.1	149	16.8
110.applu	2200	226	9.72	180	12.2
125.turb3d	4100	292	14.0	277	14.8
141.apsi	2100	101	20.9	101	20.7
145.fpppp	9600	562	17.1	587	16.3
146.wave5	3000	152	19.8	129	23.2
SPECfp_base95 (G. Mean)			16.2		
		SPECfp95 (G. Mean)			17.3

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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-- Prepared By: --