SPEC CFP95 Results

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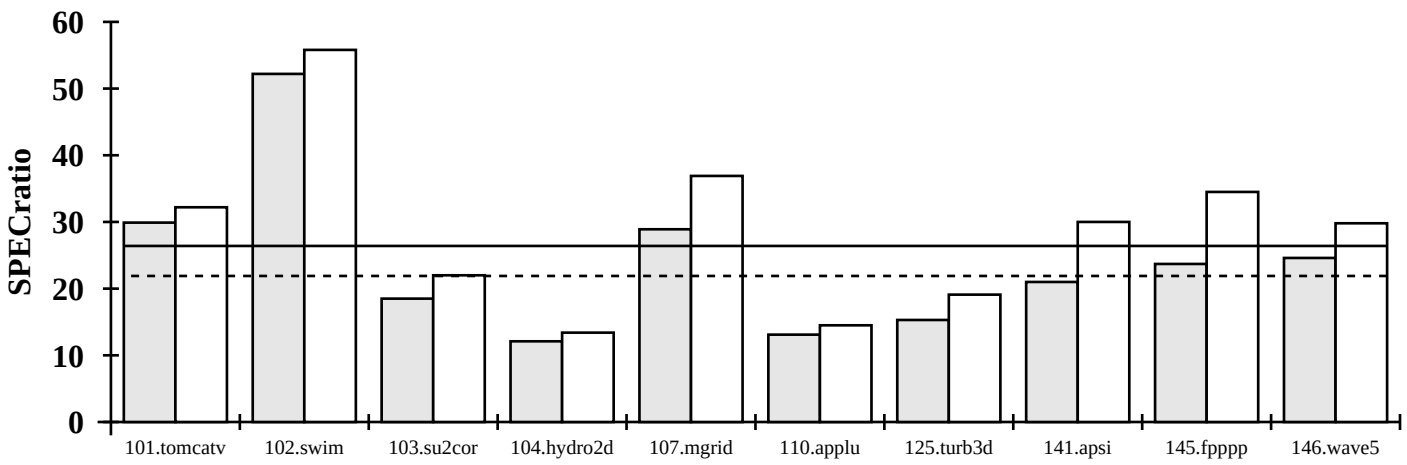
Sun Microsystems
Sun Enterprise 250

SPECfp95 = 26.4

SPECfp_base95 = 21.9

SPEC license # 6 | Tested By: Sun, Palo Alto | Test Date: Jan-2000 | Hardware Avail: Mar-1999 | Software Avail: Aug-1999



Hardware/Software Configuration for:
Sun Enterprise 250

Hardware

Model Name:	Sun Enterprise 250
CPU:	400 MHz UltraSPARC-II
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	2MB(I+D) off chip
Other Cache:	None
Memory:	512MB
Disk Subsystem:	2 x 9GB
Other Hardware:	Fast Ethernet System clock frequency: 100 MHz

Software

Operating System:	Solaris 7 8/99 (64-bit)
Compiler:	Sun Workshop FORTRAN 77 5.0
File System:	UFS
System State:	Single User
Kernel Extensions:	

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	124	29.9	115	32.2
102.swim	8600	165	52.2	154	55.8
103.su2cor	1400	75.6	18.5	64	22.0
104.hydro2d	2400	198	12.1	179	13.4
107.mgrid	2500	86.4	28.9	68	36.9
110.applu	2200	168	13.1	151	14.5
125.turb3d	4100	267	15.3	215	19.1
141.apsi	2100	100.0	21.0	70	30.0
145.fpppp	9600	406	23.7	278	34.5
146.wave5	3000	122	24.6	101	29.8
SPECfp_base95 (G. Mean)			21.9		
		SPECfp95 (G. Mean)			26.4

Notes/Tuning Information

```
P1= -xprofile=collect:‘pwd‘/../feedback
P2= -xprofile=use:‘pwd‘/../feedback
BCOPY= -Qoption iropt -O4+bcopy; INV = -Qoption iropt -O4+invccexp; BMR = -Qoption iropt -O4+bmerge
Baseline: -fast -xarch=v8plusa -xparallel
Baseline: PASS1= ${P1}; PASS2= ${P2};
101.tomcatv: -fast -xarch=v8plusa -xpad -xprefetch -xparallel -xreduction
102.swim:    -fast -xarch=v8plusa -s -xpad=common:15 -xprefetch  -xparallel
103.su2cor:  -fast -xarch=v8plusa -s -xvector -Qoption cg -Qms_pipe+nfll=5 -fsimple=2  ${BCOPY}  -xparallel -xreduction
103.su2cor:  PASS1= -xO4 ${P1}; PASS2= -xO5 -xsafe=mem ${P2};  EXTRA_LIBS= -lmvec
104.hydro2d: -fast -xarch=v8plusa -xprefetch -Qoption iropt -O4+pde -fsimple=2 -xparallel
104.hydro2d:  PASS1= ${P1}; PASS2= ${P2};
107.mgrid: -fast -xarch=v8plusa -fsimple=2 -xprefetch -xparallel
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 ${INV}
125.turb3d:  PASS1= -xO4 ${P1}; PASS2= -xO5 -xsafe=mem ${P2};
141.apsi:    -fast -xarch=v8plusa -s -xchip=ultra2  -fsimple=2 -xvector -stackvar  -Qoption iropt -Si36  ${BMR} ${INV}
141.apsi (cont):    -Qoption iropt -O4+algassoc
141.apsi:    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}
Config file: e250fpmp.cfg
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