SPEC CFP95rate Results

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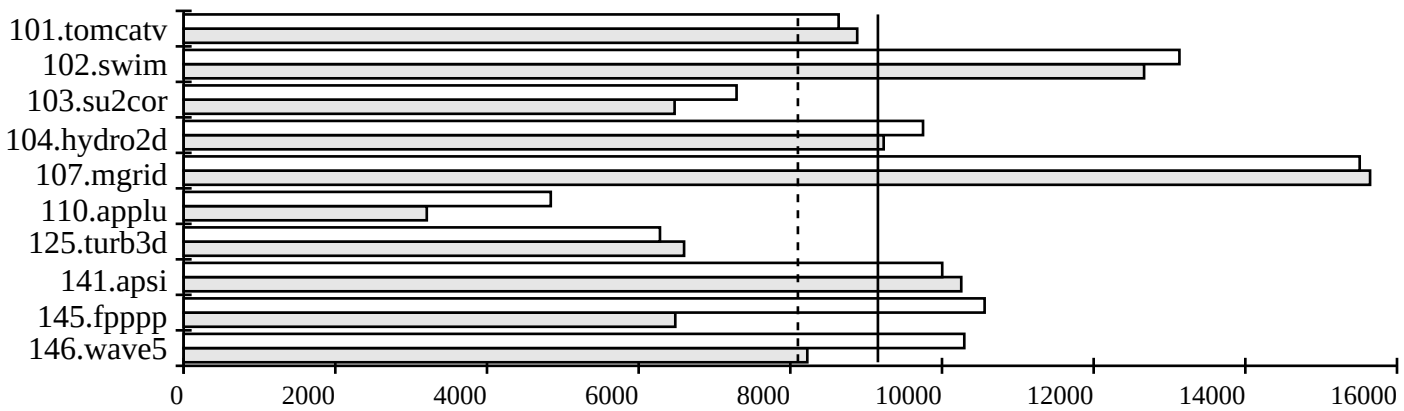
Sun Microsystems
Sun Enterprise 10000

SPECfp_rate95 = 9155

SPECfp_rate_base95 = 8100

SPEC license # 6	Tested By: Sun, Beaverton	Test Date: Apr-99	Hardware Avail: May-99	Software Avail: Mar-99



SPECrate

Hardware/Software Configuration for:
Sun Enterprise 10000

Hardware

Model Name:	Enterprise 10000
CPU:	400MHz UltraSPARC II
FPU:	Integrated
Number of CPU(s):	48
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	8MB(I+D) off chip per CPU
Other Cache:	None
Memory:	64 GB
Disk Subsystem:	35 x 9.0GB
Other Hardware:	Ethernet

Software

Operating System:	Solaris 7
Compiler:	Sun f77 5.0
File System:	UFS
System State:	Multiple User
Kernel Extensions:	

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	48	180	8882	48	185	8637
102.swim	48	293	12665	48	283	13131
103.su2cor	48	93.4	6474	48	83	7291
104.hydro2d	48	112	9231	48	106	9750
107.mgrid	48	69.0	15645	48	70	15508
110.applu	48	296	3206	48	196	4841
125.turb3d	48	268	6599	48	282	6281
141.apsi	48	88.5	10254	48	91	10003
145.fpppp	48	640	6483	48	393	10562
146.wave5	48	158	8224	48	126	10294
SPECfp_rate_base95 (G. Mean)			8100			
			SPECfp_rate95 (G. Mean)			9155

Notes/Tuning Information

```
BCOPY =   -Qoption iropt -O4+bcopy
INV =     -Qoption iropt -O4+invccexp
FULTRA =  -xarch=v8plusa -xchip=ultra
Baseline:    -fast -xarch=v8plusa -fsimple=2 -xprefetch
101.tomcatv: -fast $(FULTRA) -xpad=local:23 -xprefetch
102.swim:    -fast $(FULTRA) -xpad=common:15 -xprefetch -fsimple=2
103.su2cor:  -fast $(FULTRA) -xvector -fsimple=2 ${BCOPY}
103 cont:    -Qoption cg -Qms_pipe+nfll=5 -xprefetch -lmvec
104.hydro2d: -fast $(FULTRA) -xprefetch -fsimple=2 -Qoption iropt -O4+pde -xprofile=use
107.mgrid:   -fast $(FULTRA) -xprefetch -fsimple=2 ${BCOPY}
110.applu:   -fast $(FULTRA) -fsimple=2 -Qoption iropt
110 cont:    -O4+ddint_scalarrep+perfect+loop_dist_pde_algassoc,-Mt6000,-Mr20000-,-Ma140,-ldstr
125.turb3d:  -fast $(FULTRA) -stackvar -xpad -fsimple=2 ${BCOPY} ${INV} -xvector
141.apsi:    -fast $(FULTRA) -fsimple=2 -stackvar
141 cont:    -Qoption iropt -Si36  -Qoption iropt -O4+algassoc
145.fpppp:   -fast $(FULTRA) -xO5 -xsafe=mem -fsimple=2
145 cont:    -Qoption iropt -O4+algassoc -Qoption iropt -reroll=1 -xprofile=use
146.wave5:   -fast $(FULTRA)  -stackvar -fsimple=2 -Qoption iropt -O4+unroll ${BCOPY}
```

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-- Prepared By: --