SPEC CFP95rate Results

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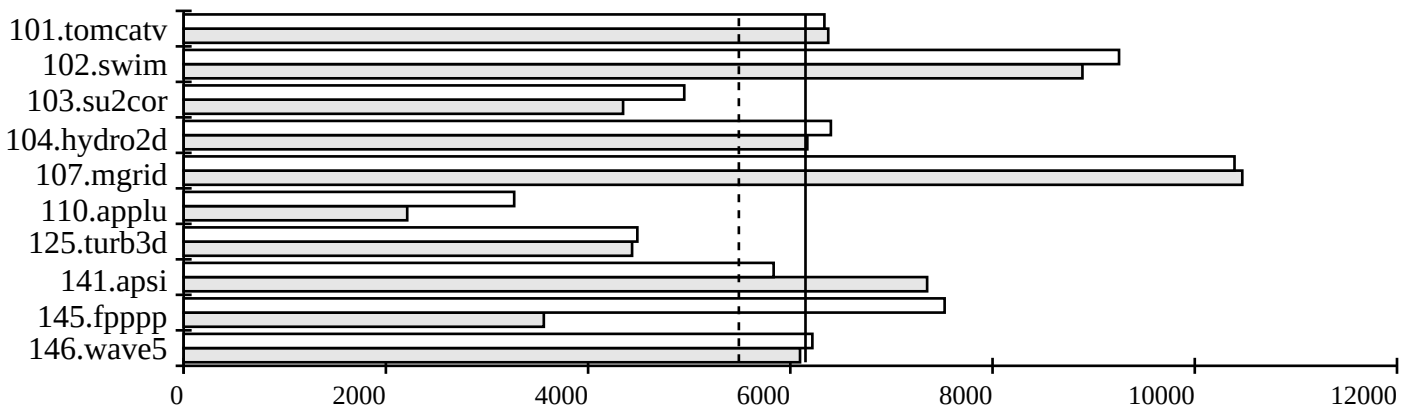
Sun Microsystems
Sun Enterprise 10000

SPECfp_rate95 = 6150

SPECfp_rate_base95 = 5491

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):	32
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	4MB(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 alpha
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	32	167	6375	32	168	6337
102.swim	32	279	8889	32	268	9251
103.su2cor	32	92.8	4346	32	81	4951
104.hydro2d	32	112	6168	32	108	6401
107.mgrid	32	68.8	10470	32	69	10393
110.applu	32	287	2211	32	194	3269
125.turb3d	32	266	4435	32	263	4487
141.apsi	32	82.3	7353	32	104	5835
145.fpppp	32	776	3562	32	367	7526
146.wave5	32	142	6096	32	139	6218
SPECfp_rate_base95 (G. Mean)			5491			
			SPECfp_rate95 (G. Mean)			6150

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 -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: --