SPEC CFP95rate Results

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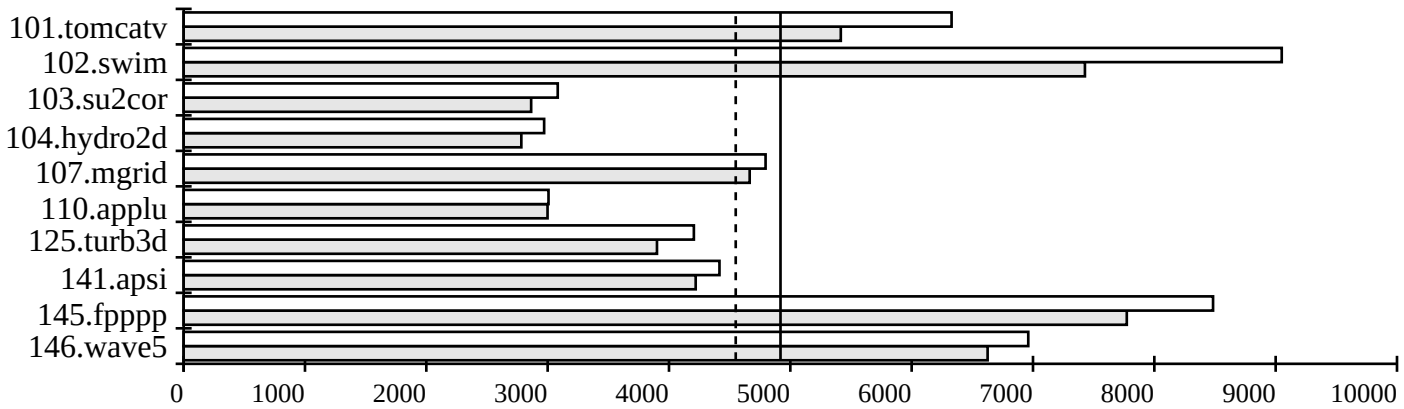
SGI Origin2000

SPECfp_rate95 = 4919

SPECfp_rate_base95 = 4550

SPEC license # 04	Tested By: SGI	Test Date: Dec-97	Hardware Avail: Nov-96	Software Avail: Sep-97



SPECrate

Hardware/Software Configuration for: Origin2000

Hardware

Model Name:	Origin2000: 32X 195MHz R10k
CPU:	195 MHz MIPS R10000 Processor Chip Revision: 2.6
FPU:	MIPS R10010 Floating Point Chip Revision: 0.0
Number of CPU(s):	32
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	4MB(I+D)
Other Cache:	None
Memory:	8192MB
Disk Subsystem:	1 SCSI 40.0GB (striped)
Other Hardware:	none

Software

Operating System:	IRIX64 6.4 w/patch2211 and patch2509
Compiler:	MIPSpro Fortran 77 and 90 7.2
	IRIX Development Foundation 1.0
File System:	XFS
System State:	Single-User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	32	197	5416	32	168	6329
102.swim	32	333	7428	32	274	9050
103.su2cor	32	141	2864	32	131	3083
104.hydro2d	32	248	2783	32	233	2971
107.mgrid	32	154	4665	32	150	4796
110.applu	32	211	2999	32	211	3007
125.turb3d	32	303	3901	32	281	4205
141.apsi	32	143	4220	32	137	4416
145.fpppp	32	356	7773	32	326	8484
146.wave5	32	130	6626	32	124	6961
SPECfp_rate_base95 (G. Mean)			4550			
			SPECfp_rate95 (G. Mean)			4919

Notes/Tuning Information

```
Base Flags: -Ofast=ip27 -LNO:fusion=2
Peak Flags: (f77 except where noted)
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$     where $ is the program name
.   PASS2 = -fb_opt /tmp/FBDIR/$        where $ is the program name
tomcatv: f90 -O3 -n32 -mips4 -LNO:prefetch_ahead=1:blocking=off
swim:    -O3 -n32 -mips4 -LNO:fusion=2:prefetch_ahead=1 -OPT:ieee_arith=3:ro=3:cs2=1m
su2cor:  -n32 -mips4 -O3 -TENV:X=3 -OPT:ro=3:ieee_arith=3:unroll_times_max=2:unroll_size=0 \
.        -OPT:unroll_analysis=off -LNO:prefetch=0:fusion=2 -TARG:platform=ip27
hydro2d: -O3 -n32 -mips4 -TENV:X=4 -OPT:ro=3:ieee_arith=3 -LNO:prefetch=2:fusion=2 -LNO:blocking=off -IPA
mgrid:   -O3 -n32 -mips4 -LNO:fusion=2:prefetch=2:prefetch_ahead=1
applu:   -Ofast=ip27 -LNO:fusion=2
turb3d:  -Ofast=ip27 -IPA:inline=off -OPT:ieee_arith=3 -LNO:pf2=0:interchange=off:cs2=1m \
.        -OPT:unroll_times_max=2, FEEDBACK
apsi:    -O3 -n32 -mips4 -IPA -OPT:div_split -LNO:fusion=2:prefetch=0:interchange=off
fpppp:   -Ofast=ip27 -lfastm -LNO:fusion=2, FEEDBACK
wave5:   -Ofast -LNO:fusion=2:fission=2:prefetch=1:prefetch_ahead=1, FEEDBACK
.
Large pages were enabled for base and peak using:
.  systune -i ;  percent_totalmem_1m_pages = 30
.  setenv PAGESIZE_DATA 1m
```

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-- Prepared By: --