SPEC CFP95rate Results

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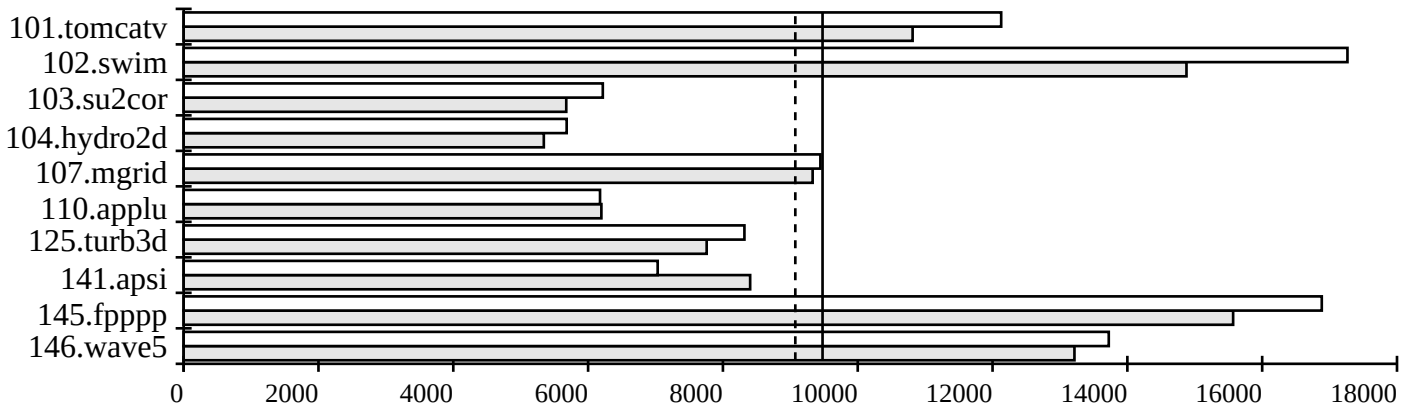
SGI Origin2000

SPECfp_rate95 = 9478

SPECfp_rate_base95 = 9074

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



Hardware/Software Configuration for: Origin2000

Hardware

Model Name:	Origin2000: 64X 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):	64
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	4MB(I+D)
Other Cache:	None
Memory:	16384MB
Disk Subsystem:	1 SCSI 17.7GB (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	64	197	10814	64	176	12128
102.swim	64	333	14877	64	287	17265
103.su2cor	64	142	5676	64	130	6218
104.hydro2d	64	259	5343	64	243	5682
107.mgrid	64	154	9331	64	152	9446
110.applu	64	204	6197	64	205	6177
125.turb3d	64	304	7759	64	284	8319
141.apsi	64	144	8404	64	172	7032
145.fpppp	64	355	15569	64	327	16884
146.wave5	64	131	13215	64	126	13724
SPECfp_rate_base95 (G. Mean)			9074			
			SPECfp_rate95 (G. Mean)			9478

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: --