SPEC CFP95 Results

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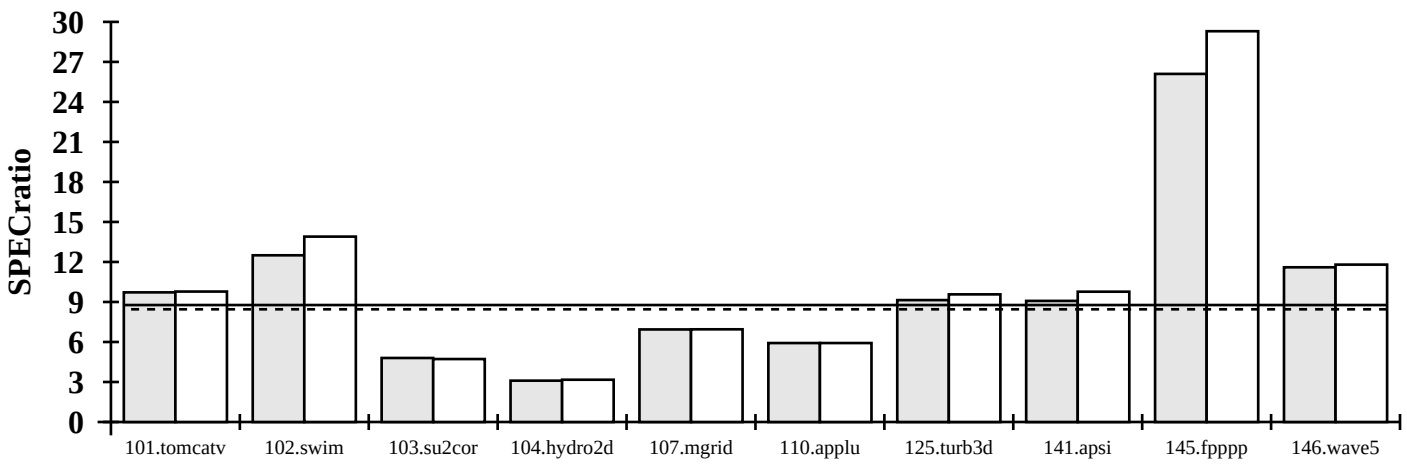
SGI
O2 R10000

SPECfp95 = 8.77

SPECfp_base95 = 8.45

SPEC license # 04	Tested By: SGI	Test Date: Feb-98	Hardware Avail: Feb-98	Software Avail: Sep-97



Hardware/Software Configuration for:
O2 R10000

Hardware

Model Name:	O2 195MHz R10000
CPU:	196 MHz MIPS R10000 Processor Chip Revision: 2.6
FPU:	MIPS R10010 Floating Point Chip Revision: 0.0
Number of CPU(s):	1
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	1MB (I+D)
Other Cache:	None
Memory:	128MB
Disk Subsystem:	1 SCSI 4.3GB
Other Hardware:	None

Software

Operating System:	IRIX 6.3
Compiler:	MIPSpro Fortran 77 and 90 7.2
	IRIX Development Foundation 1.0 w/patch 2687
File System:	XFS
System State:	Multi-User

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	381	9.72	378	9.78
102.swim	8600	686	12.5	619	13.9
103.su2cor	1400	292	4.80	296	4.72
104.hydro2d	2400	775	3.10	756	3.17
107.mgrid	2500	360	6.94	360	6.95
110.applu	2200	372	5.92	371	5.92
125.turb3d	4100	449	9.14	428	9.57
141.apsi	2100	231	9.08	215	9.77
145.fpppp	9600	367	26.1	328	29.3
146.wave5	3000	260	11.6	255	11.8
SPECfp_base95 (G. Mean)			8.45		
			SPECfp95 (G. Mean)		8.77

Notes/Tuning Information

```
All benchmarks were built using f77 unless noted otherwise
Base Flags: -Ofast=ip32_10k -LNO:fusion=2
Peak Flags:
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 -TARG:platform=ip32_10k
swim:    -O3 -n32 -mips4 -LNO:fusion=2:prefetch_ahead=1 -OPT:ieee_arith=3:ro=3:cs2=1m -TARG:platform=ip32_10k
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=ip32_10k
hydro2d: -O3 -n32 -mips4 -TENV:X=4 -OPT:ro=3:ieee_arith=3 -LNO:prefetch=2:fusion=2 \
.        -LNO:blocking=off -IPA -TARG:platform=ip32_10k
mgrid:   -O3 -n32 -mips4 -LNO:fusion=2:prefetch=2:prefetch_ahead=1 -TARG:platform=ip32_10k
applu:   -Ofast=ip32_10k -LNO:fusion=2
turb3d:  -Ofast=ip32_10k -IPA:inline=off -OPT:ieee_arith=3 -LNO:pf2=0:interchange=off:cs2=4m \
.        -OPT:unroll_times_max=2, FEEDBACK
apsi:    -O3 -n32 -mips4 -IPA -OPT:div_split -LNO:fusion=2:prefetch=0:interchange=off -TARG:platform=ip32_10k
fpppp:   -Ofast=ip32_10k -lfastm -LNO:fusion=2, FEEDBACK
wave5:   -Ofast=ip32_10k -LNO:fusion=2:fission=2:prefetch=1:prefetch_ahead=1, FEEDBACK
```

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