SPEC CFP95 Results

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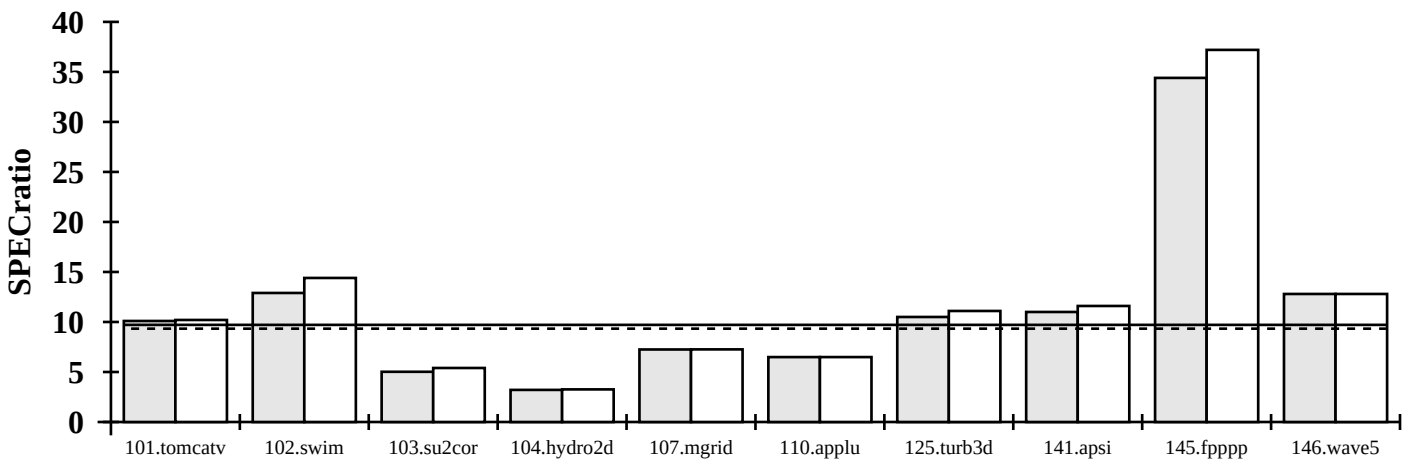
SGI
O2 R10k/250

SPECfp95 = 9.71

SPECfp_base95 = 9.33

SPEC license # 04	Tested By: SGI	Test Date: Jun-98	Hardware Avail: Jun-98	Software Avail: Jun-98



Hardware/Software Configuration for:
O2 R10k/250

Hardware

Model Name:	O2: 250MHz R10k
CPU:	250MHz MIPS R10000 Processor Chip Revision: 3.4
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 6.5
Compiler:	MIPSpro Fortran 77 and 90 7.2.1
	IRIX patches 2641 2909 2991 2992 3022 3048
	IRIX patches 3065 3077 3131 3139 3140
File System:	XFS
System State:	Single-User

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	368	10.1	362	10.2
102.swim	8600	667	12.9	599	14.4
103.su2cor	1400	279	5.02	259	5.40
104.hydro2d	2400	748	3.21	736	3.26
107.mgrid	2500	345	7.25	345	7.26
110.applu	2200	339	6.49	339	6.49
125.turb3d	4100	391	10.5	370	11.1
141.apsi	2100	191	11.0	181	11.6
145.fpppp	9600	279	34.4	258	37.2
146.wave5	3000	234	12.8	234	12.8
SPECfp_base95 (G. Mean)			9.33		
			SPECfp95 (G. Mean)		9.71

Notes/Tuning Information

```
All benchmarks built with f77 unless noted otherwise
Base Flags: -Ofast=ip32_10k -LNO:fusion=2
Peak Flags:
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$(EXENAME)
.   PASS2 = -fb_opt /tmp/FBDIR/$(EXENAME)
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
```

For More Information Contact:
SPEC
10754 Ambassador Drive, Suite 201
Manassas, VA 20109
(703) 331-0180
info@specbench.org
http://www.specbench.org/

-- Prepared By: --