SPEC CFP95 Results

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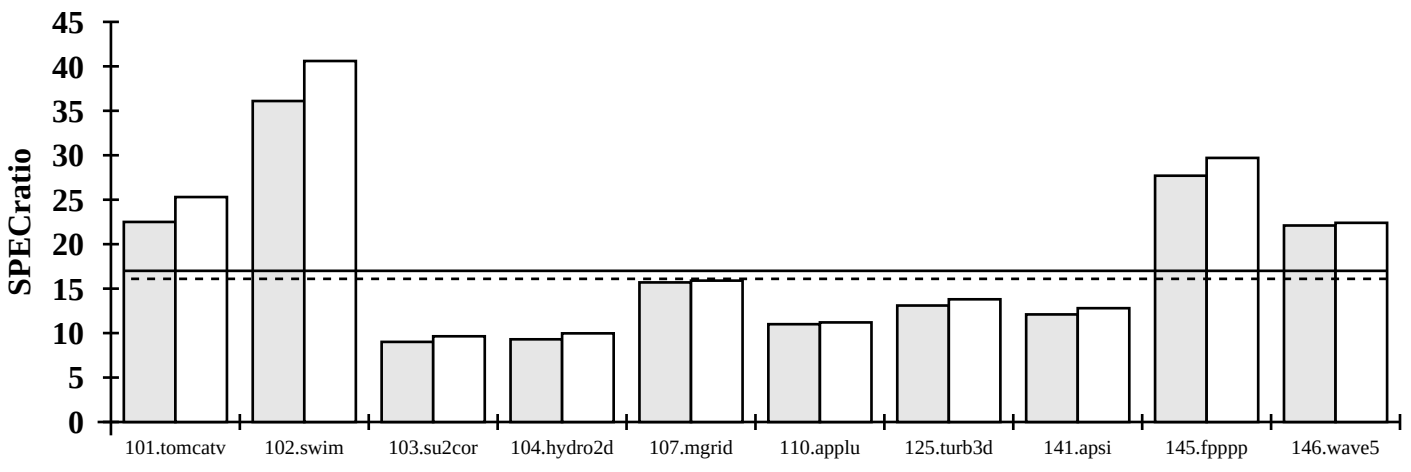
SGI Octane

SPECfp95 = 17.0

SPECfp_base95 = 16.1

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



Hardware/Software Configuration for:
Octane

Hardware

Model Name:	Octane 1X 195MHz R10k
CPU:	195 MHz MIPS R10000 Processor Chip Revision: 2.7
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:	IRIX64 6.4
Compiler:	MIPSpro Fortran 77 and 90 7.2
	IRIX Development Foundation 1.0 w/patch2687
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	164	22.5	146	25.3
102.swim	8600	238	36.1	212	40.6
103.su2cor	1400	155	9.01	145	9.64
104.hydro2d	2400	258	9.30	241	9.97
107.mgrid	2500	160	15.7	157	15.9
110.applu	2200	199	11.0	196	11.2
125.turb3d	4100	313	13.1	297	13.8
141.apsi	2100	174	12.1	165	12.8
145.fpppp	9600	346	27.7	323	29.7
146.wave5	3000	136	22.1	134	22.4
SPECfp_base95 (G. Mean)			16.1		
		SPECfp95 (G. Mean)			17.0

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=1:fusion=2 -TARG:platform=ip30
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=ip30 -LNO:fusion=2
turb3d:  -Ofast=ip30 -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
```

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-- Prepared By: --