SPEC CFP95 Results

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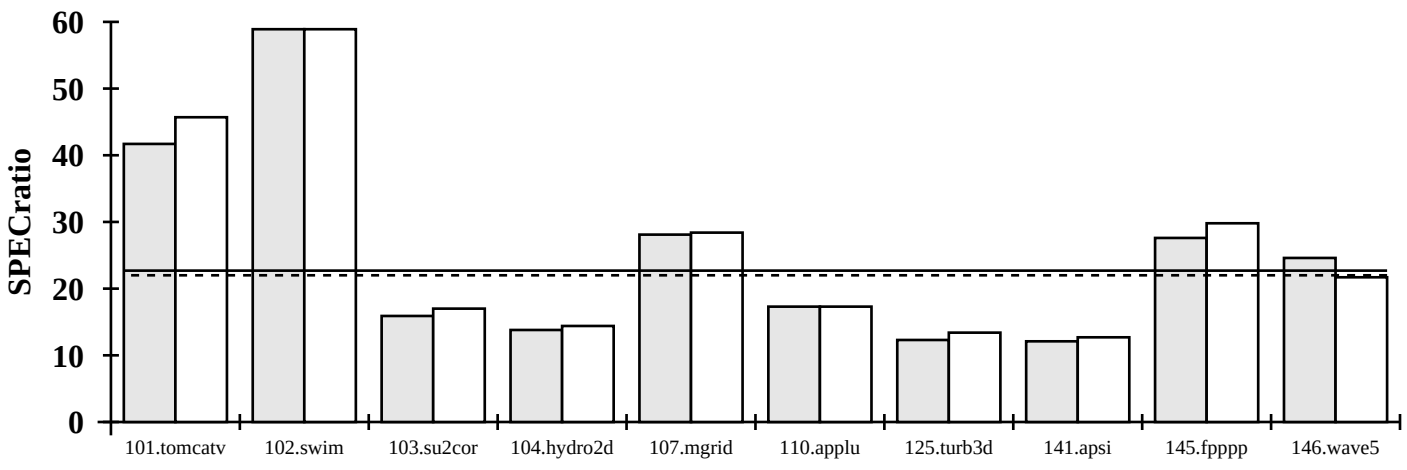
SGI Octane

SPECfp95 = 22.7

SPECfp_base95 = 22.0

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 2X 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):	2
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	1MB (I+D)
Other Cache:	None
Memory:	256MB
Disk Subsystem:	1 SCSI 4.3GB
Other Hardware:	none

Software

Operating System:	IRIX64 6.4
Compiler:	MIPSpro Fortran 77 and 90 7.2
	MIPSpro Auto Parallelizing Option 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	88.8	41.7	81	45.7
102.swim	8600	146	58.9	146	58.9
103.su2cor	1400	88.2	15.9	82	17.0
104.hydro2d	2400	174	13.8	167	14.4
107.mgrid	2500	88.9	28.1	88	28.4
110.applu	2200	127	17.3	127	17.3
125.turb3d	4100	332	12.3	305	13.4
141.apsi	2100	174	12.1	165	12.7
145.fpppp	9600	348	27.6	323	29.8
146.wave5	3000	122	24.6	138	21.7
SPECfp_base95 (G. Mean)			22.0		
		SPECfp95 (G. Mean)			22.7

Notes/Tuning Information

```
Base Flags: -Ofast=ip27 -LNO:fusion=2 -pfa
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 -pfa
swim:    -Ofast=ip27 -LNO:fusion=2 -pfa
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 -pfa
hydro2d: -O3 -n32 -mips4 -TENV:X=4 -OPT:ro=3:ieee_arith=3 -LNO:prefetch=2:fusion=2 -LNO:blocking=off -IPA -pfa
mgrid:   -O3 -n32 -mips4 -LNO:fusion=2:prefetch=2:prefetch_ahead=1 -pfa
applu:   -Ofast=ip27 -LNO:fusion=2 -pfa
turb3d:  -Ofast=ip27 -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
fpppp:   -Ofast=ip27 -lfastm -LNO:fusion=2, FEEDBACK
wave5:   -Ofast=ip27 -LNO:fusion=2
.
This environment variable was set for baseline and peak:
.  setenv MP_SET_NUMTHREADS 2
```

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