SPEC CFP95 Results

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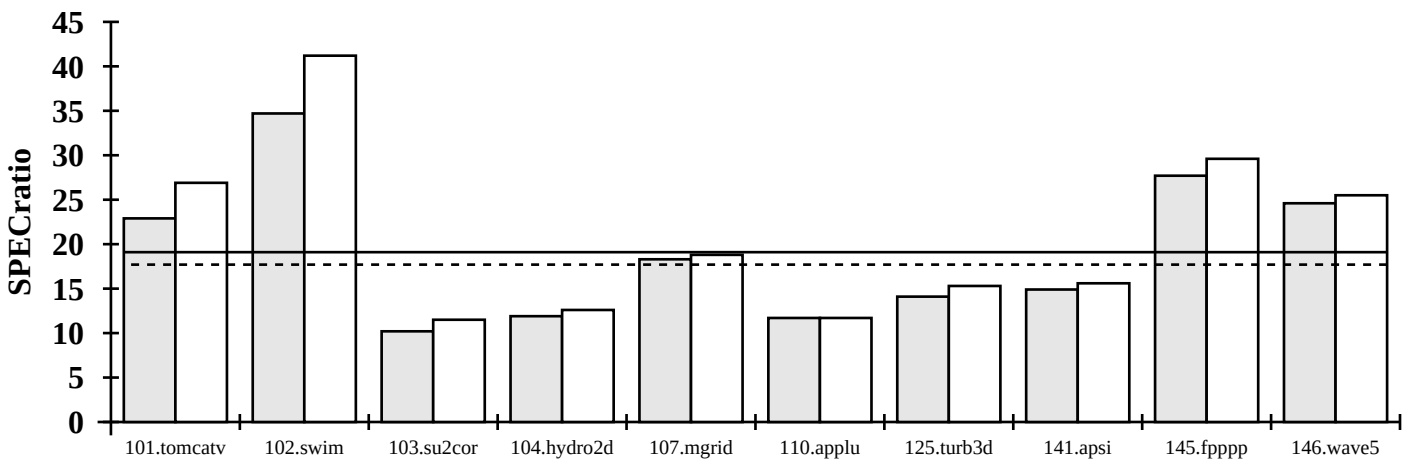
SGI Origin2000

SPECfp95 = 19.1

SPECfp_base95 = 17.7

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



Hardware/Software Configuration for: Origin2000

Hardware

Model Name:	Origin2000 DS: 2X 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):	2 (1 used)
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	4MB(I+D)
Other Cache:	None
Memory:	3968MB
Disk Subsystem:	1 SCSI 8.3GB
Other Hardware:	none

Software

Operating System:	IRIX64 6.4 w/patch2211
Compiler:	MIPSpro Fortran 77 and 90 7.2
	IRIX Development Foundation 1.0
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	162	22.9	138	26.9
102.swim	8600	248	34.7	209	41.2
103.su2cor	1400	137	10.2	122	11.5
104.hydro2d	2400	202	11.9	190	12.6
107.mgrid	2500	137	18.3	133	18.8
110.applu	2200	188	11.7	188	11.7
125.turb3d	4100	290	14.1	268	15.3
141.apsi	2100	141	14.9	135	15.6
145.fpppp	9600	346	27.7	324	29.6
146.wave5	3000	122	24.6	118	25.5
SPECfp_base95 (G. Mean)			17.7		
			SPECfp95 (G. Mean)		19.1

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=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 -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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