SPEC CFP95 Results

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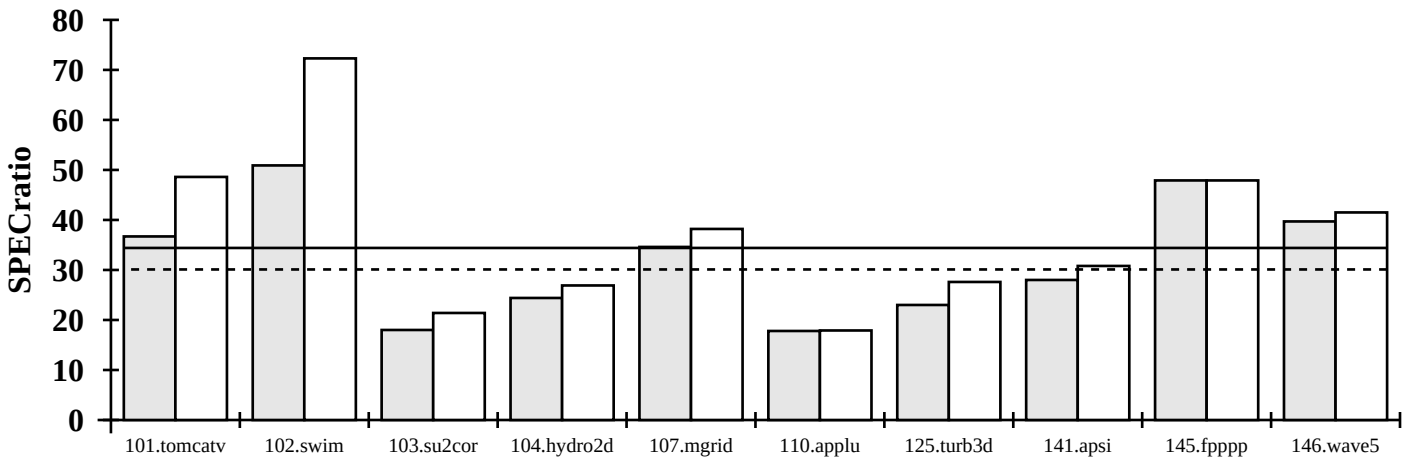
SGI Origin2000: 2X 300MHz R12k

SPECfp95 =	34.4
SPECfp_base95 =	30.1

SPEC license # 04	Tested By: SGI	Test Date: Apr-99	Hardware Avail: Apr-99	Software Avail: Apr-99



Hardware/Software Configuration for:
Origin2000: 2X 300MHz R12k

Hardware

Model Name:	Origin2000: 2X 300MHz R12k
CPU:	300 MHz MIPS R12000 Processor Chip Revision: 2.3
FPU:	Integrated
Number of CPU(s):	2 (1 used)
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	8MB (I+D)
Other Cache:	None
Memory:	1024MB
Disk Subsystem:	1 SCSI 2.1GB
Other Hardware:	none

Software

Operating System:	IRIX64 6.5
Compiler:	MIPSpro Fortran 77 and 90 7.3
	IRIX Development Foundation 1.2
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	101	36.7	76	48.6
102.swim	8600	169	50.9	119	72.3
103.su2cor	1400	77.8	18.0	65	21.4
104.hydro2d	2400	98.5	24.4	89	26.9
107.mgrid	2500	72.3	34.6	65	38.2
110.applu	2200	124	17.8	123	17.9
125.turb3d	4100	178	23.0	149	27.6
141.apsi	2100	74.9	28.0	68	30.8
145.fpppp	9600	201	47.9	201	47.9
146.wave5	3000	75.5	39.7	72	41.5
SPECfp_base95 (G. Mean)			30.1		
		SPECfp95 (G. Mean)			34.4

Notes/Tuning Information

```
Base Flags: f77 -Ofast=ip27 -LNO:fusion=2 FEEDBACK
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$(EXENAME)
.   PASS2 = -fb_opt /tmp/FBDIR/$(EXENAME)
Peak Flags:
tomcatv: f90 -Ofast=ip27 -LNO:prefetch_ahead=1:blocking=off:ou_max=2:local_pad_size=1
swim:    f77 -Ofast=ip27 -LNO:fusion=2:prefetch_ahead=1 -IPA:inline=off:pad=off -OPT:ieee_arith=3:ro=3 -bigp_off
su2cor:  f90 -O3 -n32 -mips4 -TARG:platform=ip27 -TENV:X=3 -LNO:prefetch=0:fusion=2:local_pad_size=0 \
.            -OPT:ro=3:ieee_ar=3:unroll_times_max=2:unroll_size=0:unroll_analysis=off
hydro2d: f77 -Ofast=ip27 -TENV:X=4 -OPT:ro=3:ieee_arith=3 -LNO:prefetch=2:fusion=2:blocking=off \
.            -IPA:maxdepth=1 -bigp_off
mgrid:   f77 -Ofast=ip27 -LNO:fusion=2:prefetch=2:prefetch_ahead=1:blocking=off -bigp_off
applu    f77 -Ofast=ip27 -LNO:fusion=2:ou_max=5:ou_prod_max=10
turb3d   f77 -Ofast=ip27 -OPT:ieee_arith=3 -IPA:multi_clone=12:node_bloat=200 -LNO:prefetch=0
apsi     f77 -Ofast=ip27 -OPT:div_split -LNO:fusion=2:prefetch=0:blocking=off -bigp_off
fpppp:   f77 -Ofast=ip27 -LNO:fusion=2 FEEDBACK
wave5:   f77 -Ofast=ip27 -LNO:fusion=2 -IPA:common_pad_size=13:maxdepth=2 -OPT:unroll_size=400 -bigp_off
.
Large pages were enabled for base and peak using:
.  systune -i ;  percent_totalmem_1m_pages = 50 ; nlpages_1m = 200
.  setenv PAGESIZE_DATA 1024
```

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-- Prepared By: --