SPEC CFP95 Results

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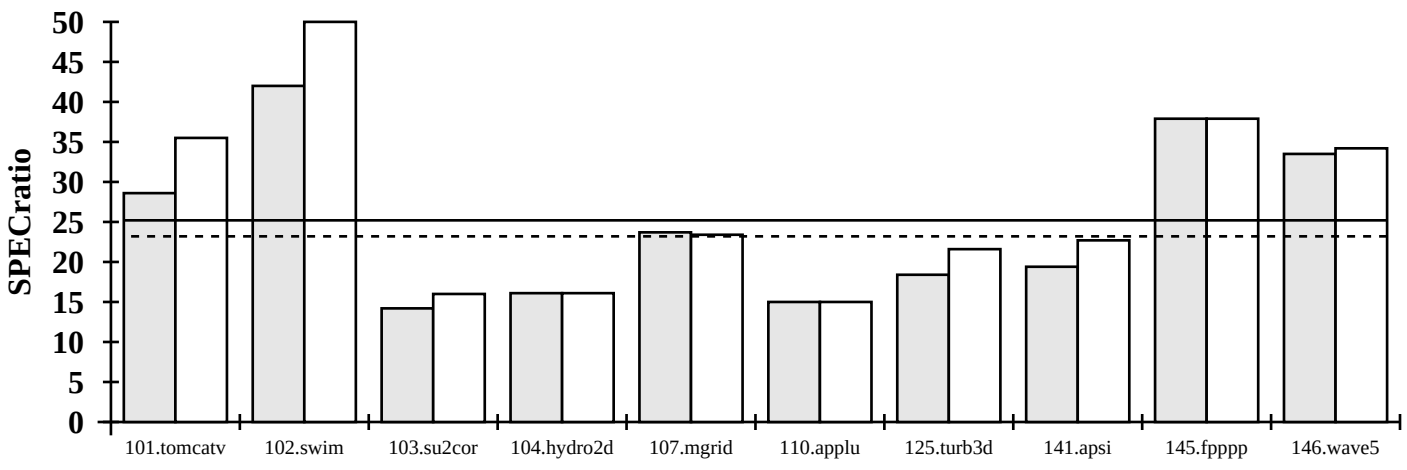
SGI Origin2100: 250MHz R10k

SPECfp95 = 25.2

SPECfp_base95 = 23.2

SPEC license # 04 | Tested By: SGI | Test Date: Jul-99 | Hardware Avail: Aug-99 | Software Avail: Jul-99



Hardware/Software Configuration for:
Origin2100: 250MHz R10k

Hardware

Model Name:	Origin2100: 250MHz R10k
CPU:	250 MHz MIPS R10000 Processor Chip Revision: 3.4
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	4MB (I+D)
Other Cache:	None
Memory:	512MB
Disk Subsystem:	1 SCSI 4.3GB
Other Hardware:	none

Software

Operating System:	IRIX64 6.5.5
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	129	28.6	104	35.5
102.swim	8600	205	42.0	172	50.0
103.su2cor	1400	98.3	14.2	87	16.0
104.hydro2d	2400	149	16.1	149	16.1
107.mgrid	2500	105	23.7	107	23.4
110.applu	2200	147	15.0	147	15.0
125.turb3d	4100	223	18.4	190	21.6
141.apsi	2100	108	19.4	92	22.7
145.fpppp	9600	253	37.9	253	37.9
146.wave5	3000	89.6	33.5	88	34.2
SPECfp_base95 (G. Mean)			23.2		
		SPECfp95 (G. Mean)			25.2

Notes/Tuning Information

```
Base Flags: f90 -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: f90 -Ofast=ip27 -LNO:fusion=2 -TENV:X=4
mgrid:   f90 -Ofast=ip27 -LNO:prefetch_ahead=1
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:   f90 -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
.  setenv PAGESIZE_DATA 1024
```

For More Information Contact:
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-- Prepared By: --