SPEC CFP95 Results

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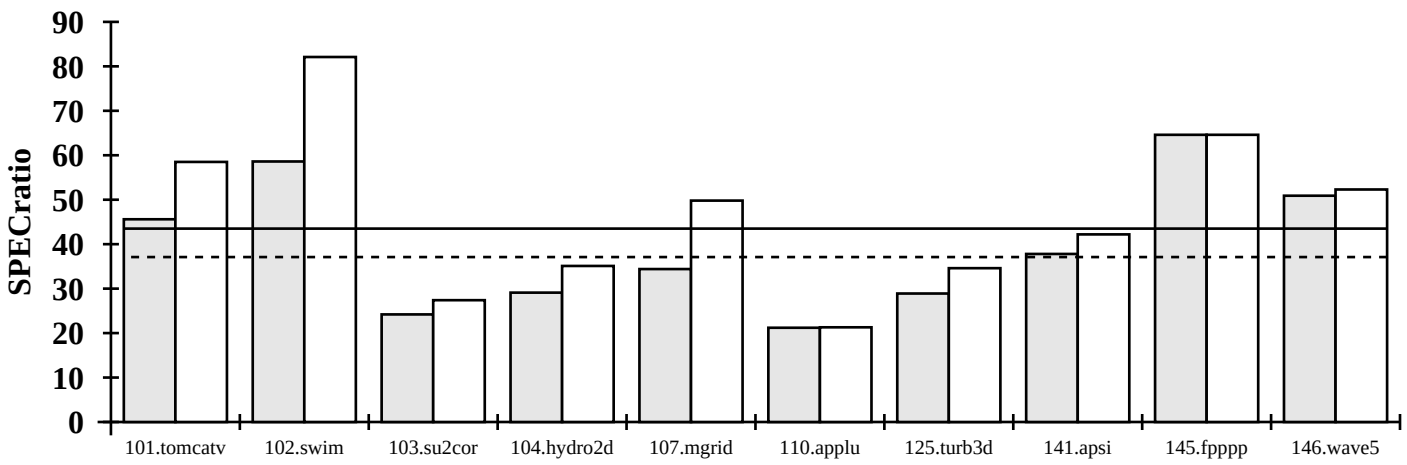
SGI
SGI 2200: 2X 400MHz R12k

SPECfp95 = 43.5

SPECfp_base95 = 37.1

SPEC license # 04 | Tested By: SGI | Test Date: Apr-2000 | Hardware Avail: Jun-2000 | Software Avail: Apr-2000



Hardware/Software Configuration for:
SGI 2200: 2X 400MHz R12k

Hardware

Model Name:	SGI 2200: 2X 400MHz R12k
CPU:	400 MHz MIPS R12000 Processor Chip Revision: 3.5
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	8MB (I+D)
Other Cache:	None
Memory:	1024MB
Disk Subsystem:	2x SCSI 9GB (striped)
Other Hardware:	none

Software

Operating System:	IRIX64 6.5.8
Compiler:	MIPSpro Fortran 77 and 90 7.3.1.1m
	IRIX Development Foundation 1.2
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	81.2	45.6	63	58.5
102.swim	8600	147	58.6	105	82.1
103.su2cor	1400	57.9	24.2	51	27.4
104.hydro2d	2400	82.6	29.1	68	35.1
107.mgrid	2500	72.7	34.4	50	49.8
110.applu	2200	104	21.2	103	21.3
125.turb3d	4100	142	28.9	118	34.6
141.apsi	2100	55.6	37.8	50	42.2
145.fpppp	9600	149	64.6	149	64.6
146.wave5	3000	59.0	50.9	57	52.3
SPECfp_base95 (G. Mean)			37.1		
		SPECfp95 (G. Mean)			43.5

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 -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 -TENV:X=4
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: SPEC info@spec.org http://www.spec.org/

-- Prepared By: --