SPEC CFP95rate Results

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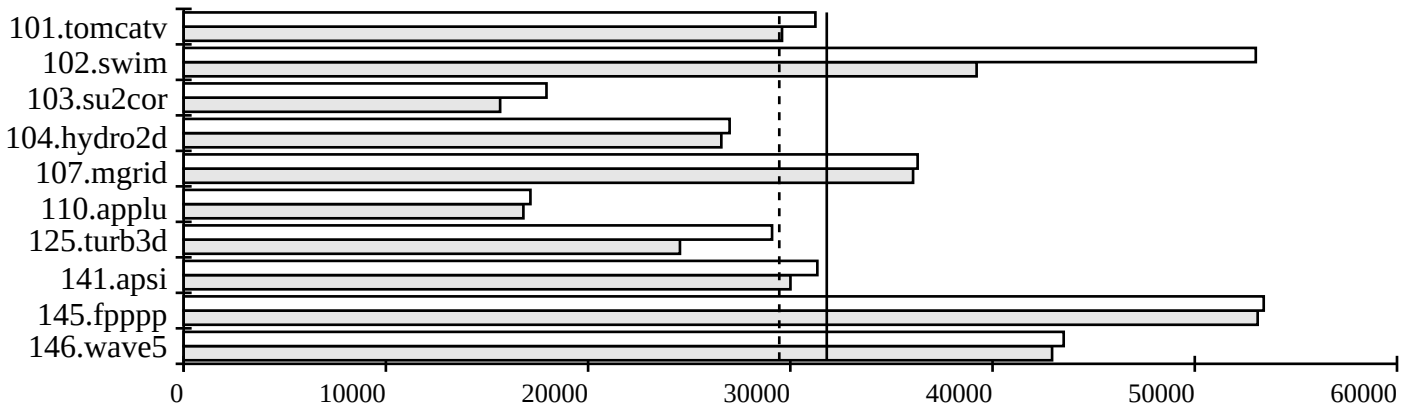
SGI
Origin2000: 128X 300MHz R12k

SPECfp_rate95 = 31802

SPECfp_rate_base95 = 29454

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



SPECrate

Hardware/Software Configuration for:
Origin2000: 128X 300MHz R12k

Hardware

Model Name:	Origin2000: 128X 300MHz R12k
CPU:	300 MHz MIPS R12000 Processor Chip Revision: 2.3
FPU:	Integrated
Number of CPU(s):	128
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	8MB (I+D) per CPU
Other Cache:	None
Memory:	32768MB
Disk Subsystem:	17 SCSI 4.5GB (striped)
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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	128	144	29589	128	136	31240
102.swim	128	253	39212	128	187	53017
103.su2cor	128	103	15650	128	90	17942
104.hydro2d	128	104	26588	128	102	26998
107.mgrid	128	79.8	36070	128	79	36295
110.applu	128	151	16800	128	148	17148
125.turb3d	128	192	24542	128	162	29097
141.apsi	128	80.6	30006	128	77	31336
145.fpppp	128	208	53110	128	207	53409
146.wave5	128	80.5	42944	128	79	43518
SPECfp_rate_base95 (G. Mean)			29454			
			SPECfp_rate95 (G. Mean)			31802

Notes/Tuning Information

```
Base Flags: f77 -Ofast=ip27 -LNO:fusion=2
Peak Flags:
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$(EXENAME)
.   PASS2 = -fb_opt /tmp/FBDIR/$(EXENAME)
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
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
mgrid:   f77 -Ofast=ip27 -LNO:fusion=2:prefetch=2:prefetch_ahead=1:blocking=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
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
.
Large pages were enabled for base and peak using:
.  systune -i ;  percent_totalmem_1m_pages = 50 ; percent_totalmem_256k_pages = 10 ; nlpages_1m = 100
.  setenv PAGESIZE_DATA 1024
```

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-- Prepared By: --