SPEC CFP95rate Results

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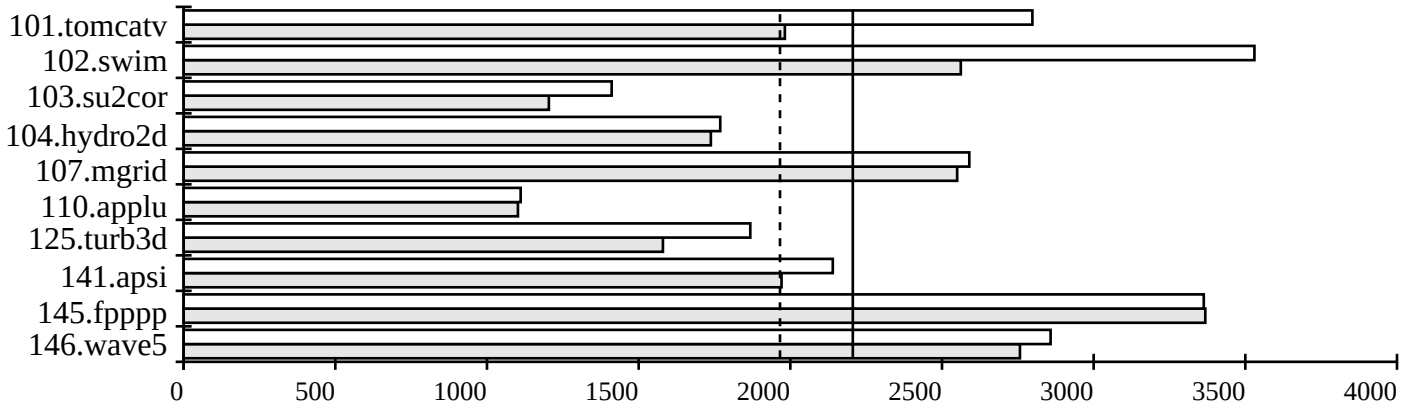
SGI Origin2000: 8X 300MHz R12k

SPECfp_rate95 = 2206

SPECfp_rate_base95 = 1966

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



SPECrate

Hardware/Software Configuration for:
Origin2000: 8X 300MHz R12k

Hardware

Model Name:	Origin2000: 8X 300MHz R12k
CPU:	300 MHz MIPS R12000 Processor Chip Revision: 2.3
FPU:	Integrated
Number of CPU(s):	8
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	8MB (I+D) per CPU
Other Cache:	None
Memory:	2048MB
Disk Subsystem:	2 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	8	134	1982	8	95	2798
102.swim	8	242	2562	8	175	3530
103.su2cor	8	83.7	1204	8	71	1411
104.hydro2d	8	99.4	1738	8	98	1769
107.mgrid	8	70.6	2550	8	70	2590
110.applu	8	144	1102	8	143	1111
125.turb3d	8	187	1580	8	158	1868
141.apsi	8	76.7	1971	8	71	2140
145.fpppp	8	205	3368	8	206	3363
146.wave5	8	78.4	2757	8	76	2858
SPECfp_rate_base95 (G. Mean)			1966			
SPECfp_rate95 (G. Mean)						2206

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 -L$/usr/lib32/mips4 -L/usr/lib32 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 = 500
.  setenv PAGESIZE_DATA 1024
```

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-- Prepared By: --