Spin Semiconductor

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Free DSP Programs

The following programs are free to use under the terms of the Spin Semiconductor Open Reverb License for both personal and commercial applications. If you would like to share your own program, please email us. You must agree to release your program under the Spin Semiconductor Open Reverb License to submit it.

Please note that many of these programs output only the processed signal and as a result the output should be mixed back in with the dry signal.

FV-1 -- SPN1001
Code snippets

Program Name	Description	Submitted By	Source	PDF
RMS limiter	Approx 10dB limiting range, stereo I/O, common control (to maintain image)	Keith Barr	rms_limiter.spn	
RMS limiter/expander example	Simple RMS limiter/expander example	Keith Barr	rms_lim_exp.spn	
Mini reverb	Mini reverb example,	Keith Barr	min_rev1.spn	
Soft knee RMS limiter	Soft knee RMS limiter	Keith Barr	rms_soft_knee.spn	
Simple limiter	Simple limiter, -12dB threshold, peak detecting	Keith Barr	simp_limiter.spn	
+/-20dB gain/loss	Example program for +/-20dB gain/loss	Keith Barr	thru_gain.spn	

Disco/DJ programs

Program Name	Description	Submitted By	Source	PDF
Reverb+HP+LP	Reverb plus 2-pole high-pass and 2-pole low-pass	Dave Spinkler	dance_ir_h_l.spn	
Reverb+Flange+LP	Reverb plus flange plu 4-pole low pass	Dave Spinkler	dance_ir_fla_l.spn	
Reverb+Pitch+LP	Reverb plus pitch plus 4-pole low-pass	Dave Spinkler	dance_ir_ptz_l.spn	

EQ

Program Name	Description	Submitted By	Source	PDF
Active crossover	Active cross-over program for speaker equalization. Multiple bands of parametric EQ, etc.	Keith Barr	act_xover.spn	AN-0002.pdf

OEM

Program Name	Description	Submitted By	Source	PDF
OEM1	portable mixer programs	Keith Barr	oem1.zip	

Other effects

Program Name	Description	Submitted By	Source	PDF
Distortion	Example distortion module	Keith Barr	dist.spn	
Sine wave generator	Sine wave generator, uses POT0 and POT1 for coarse and fine adjustment, POT2 for amplitude control	Keith Barr	singen.spn	
Battling LFOs	What happens when one LFO controls another, and that controls another and that controls another and that controls the first one?	Keith Barr	battling_lfos.spn	

Pitch :: Shifting

Program Name	Description	Submitted By	Source	PDF
ROM pitch shift	Pitch shifting program from the FV-1 internal ROM	Frank Thomson	rom_pitch.spn	
ROM pitch-echo	Pitch-echo program from the FV-1 internal ROM	Frank Thomson	rom_pt_echo.spn	
Key-rev	Pitch + reverb for karaoke apps	Keith Barr	key_rev.spn	

Reverb :: Combined effect

Program Name	Description	Submitted By	Source	PDF
ROM flange/reverb	Combination flange/reverb program from the FV-1 internal ROM	Keith Barr	rom_fla_rev.spn	
ROM reverb/chorus	Reverb/chorus program from the FV-1 internal ROM	Keith Barr	rom_chor_rev.spn	
ROM tremolo/reverb	Combination tremelo/reverb program from the FV-1 internal ROM	Keith Barr	rom_trem_rev.spn	

Reverb :: Plate

Program Name	Description	Submitted By	Source	PDF
Very tight plate	Very tight plate reverb	Harmon Grold	rev_pl_3.spn	
Tight plate	Tight plate reverb	Harmon Grold	rev_pl_2.spn	
Plate reverb	Plate reverb	Harmon Grold	rev_pl_1.spn	

Reverb :: Room

Program Name	Description	Submitted By	Source	PDF
ROM reverb 1	Reverb 1 program from the FV-1 internal ROM	Keith Barr	rom_rev1.spn	
ROM reverb 2	Reverb 2 program from the FV-1 internal ROM	Keith Barr	rom_rev2.spn	
Reverb/RT/D/F	Reverb program that allows three controls, reverb time, diffusion and high/low frequency damping	Keith Barr	rev_rt_d_f.spn	