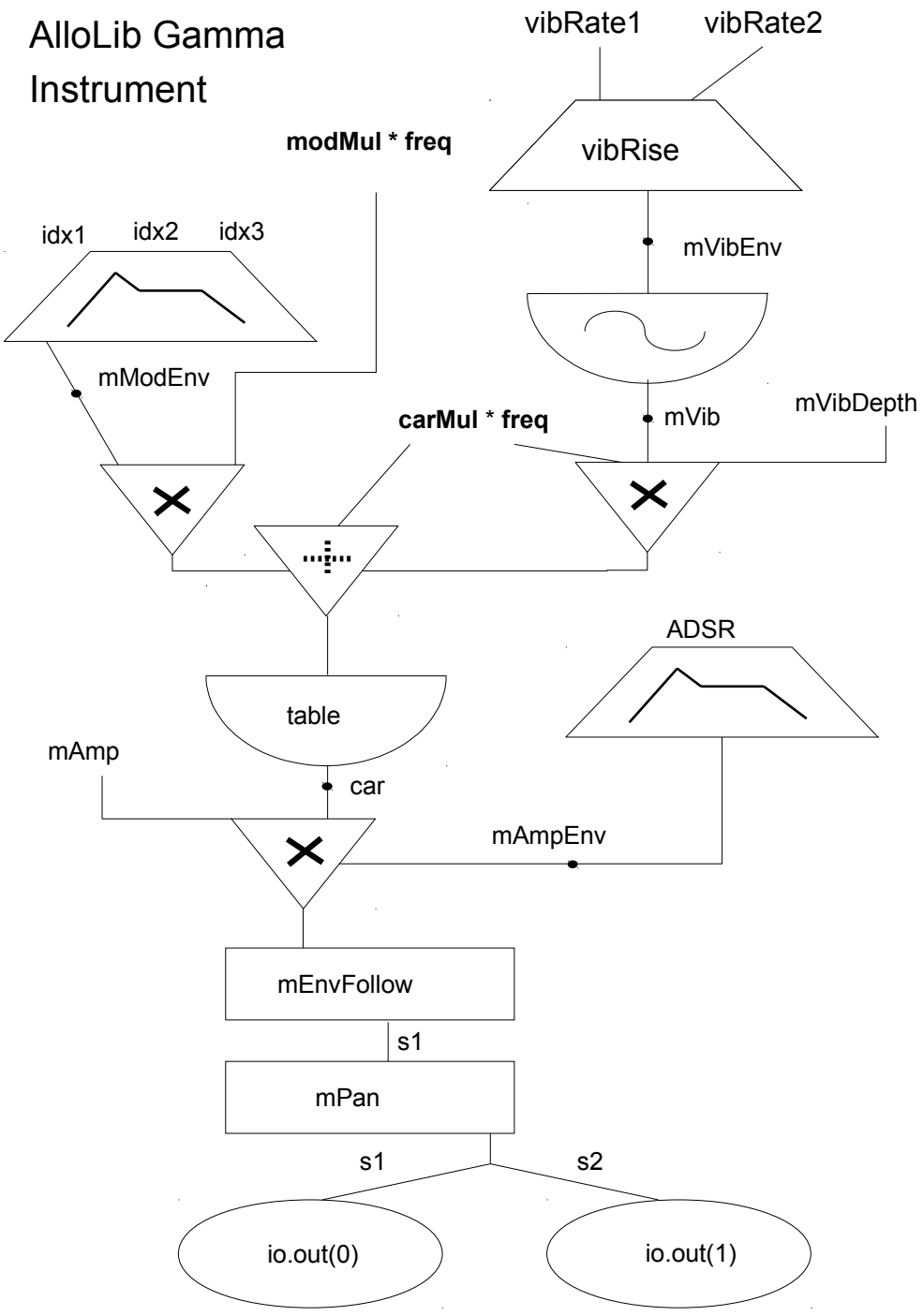
< FM Vibrato >



**** Equation***

$$s(t) = A\cos(\omega_c t + \beta \sin(\omega_m t))$$

- $s(t) = A_c \sum_{n=-\infty}^{\infty} J_n(\beta)\cos[2\pi(f_c + nf_m)t]$

  - Single - tone FM wave for an arbitrary value of β

**** Terms***

$s(t)$ output signal (fn. of time)

A output amplitude

ω_c carrier frequency, in radians/sec

β modulation index

ω_m modulator frequency, in radians/sec

$\omega_c t$, $\omega_m t$ instantaneous car, mod phase, in radians

$J_n(\beta)$ = Bessel functions