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Phaser block (#p3569)
by **Jacko** » Fri Aug 16, 2019 9:17 pm

A single stage phaser code for a new block:

```
Here's some code for one stage phaser:

;y(n) = A * x(n) + A * y(n-1) - x(n-1)
; can be simplified to
;y(n) = A * (x(n) + y(n-1)) - x(n-1)

; A is a function of the LFO or a POT

ldax xn ; input to stage
rdax ynold,1
mulx A
rdax xold,-1
wrax yn,1 ; output of stage
wrax ynold,0
ldax xn
wrax xold,0
```

Would have some uses...

regards, Jacko

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Re: Phaser block (#p3572)
by **Digital Larry** » Mon Aug 19, 2019 4:53 am
Thanks Jacko.

I like to try to figure these things out a bit. Is it really an all pass stage?

If A = 0 then y(n) = - x(n - 1) : 180 degrees phase shift
If A = 1 then y(n) = (x(n) - x(n - 1))/y(n - 1) which looks like... hmmm.... not really sure.

Anyone want to elaborate on the analysis? I'm no good at this stuff any more.

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