

## Re: need small PAL with SR latch

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-06/msg03347.html>

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- *From:* "colin" <[no.spam.for.me@xxxxxxxxxxxxx](mailto:no.spam.for.me@xxxxxxxxxxxxx)>
  - *Date:* Fri, 24 Jun 2005 17:15:01 GMT
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"Joel Kolstad" <[JKolstad71HatesSpam@xxxxxxxxxx](mailto:JKolstad71HatesSpam@xxxxxxxxxx)> wrote in message [news:11bob0f3t3k37bf@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:11bob0f3t3k37bf@xxxxxxxxxxxxxxxxxxxxxxxx)  
> "colin" <[no.spam.for.me@xxxxxxxxxxxxx](mailto:no.spam.for.me@xxxxxxxxxxxxx)> wrote in message  
> [news:dOVue.4085\\$BD2.1932@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:dOVue.4085$BD2.1932@xxxxxxxxxxxxxxxxxxxxxxxx)  
> > I need a small prgramable logic device with a couple of SR latches,  
> > however they all seem to have D types or other type of latch on the  
macro  
> > cell with a global clock/set/reset, except for some of the realy big  
ones.  
> > Ive looked through all of the ones that Farnell sell, and although I  
> > could obviously feed back an output to make an SR latch this wouldnt be  
> > ideal, any one know if there are any like this ?  
>  
> Why do you say that feeding back an output (internally within the part)  
isn't  
> ideal? With most of the smaller PLDs, the routing is pretty  
staightforward  
> (and fixed!) so it's reasonable to just build your own using the AND-OR  
array  
> within the part.

I estimate there would be 6 gates in the circular path as well as the loading of the output pin and grid lines, compared to a normal latch etc were there is a circular path of 2 gates with minimal loading. there would be a significant diference in speed/generated noise. Im trying to acuratly measure relative edge timings so the faster the better, bit like in a type II phase detector, except I found that doesnt work quite the way I expected as it is indeterminate if a waveforem is 90' or 270' out of phase. a simple xor detector would not allow as much sensitivity.

>  
> > Only needs a dozen gates or so to do the job, could do with being fast  
> > as posible and in circuit programable etc.  
>  
> I haven't use any non-in-circuit programmable parts in years now; I'm amazed  
> that anyone still does.

Re: need small PAL with SR latch

I havent designed in any pld's for ages :)

Colin =^,^=

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• *Follow-Ups:*

- ◆ *Re: need small PAL with SR latch*  
    ◇ *From:* John Larkin
- ◆ *Re: need small PAL with SR latch*  
    ◇ *From:* Joerg
- ◆ *Re: need small PAL with SR latch*  
    ◇ *From:* Joel Kolstad

• *References:*

- ◆ *need small PAL with SR latch*  
    ◇ *From:* colin
- ◆ *Re: need small PAL with SR latch*  
    ◇ *From:* Joel Kolstad

- Prev by Date: *OT: Growing up 50 years ago (Caution: sentiment)*
- Next by Date: *Re: Audio quality degradation over FM transmission*
- Previous by thread: *Re: need small PAL with SR latch*
- Next by thread: *Re: need small PAL with SR latch*
- Index(es):
  - ◆ *Date*
  - ◆ *Thread*