

*****Draft*****

Using GTKWave to display the CVS from the rp2040-logic-analyzer 05/10/22

*****Draft*****

Need to reformat the data from pwm.txt

wc pwm.txt

27801 27808 472625 pwm.txt

g

Clock speed is 125000000

Capture speed is 1000000.000000.2

Arming trigger

0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

0,1,0,0,0,0,1,

0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

0,1,0,0,0,0,1,

0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

0,1,0,0,0,0,1,

.

.

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0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

0,1,0,0,0,0,1,

0,1,0,0,0,0,1,

0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

0,1,0,0,0,0,1,

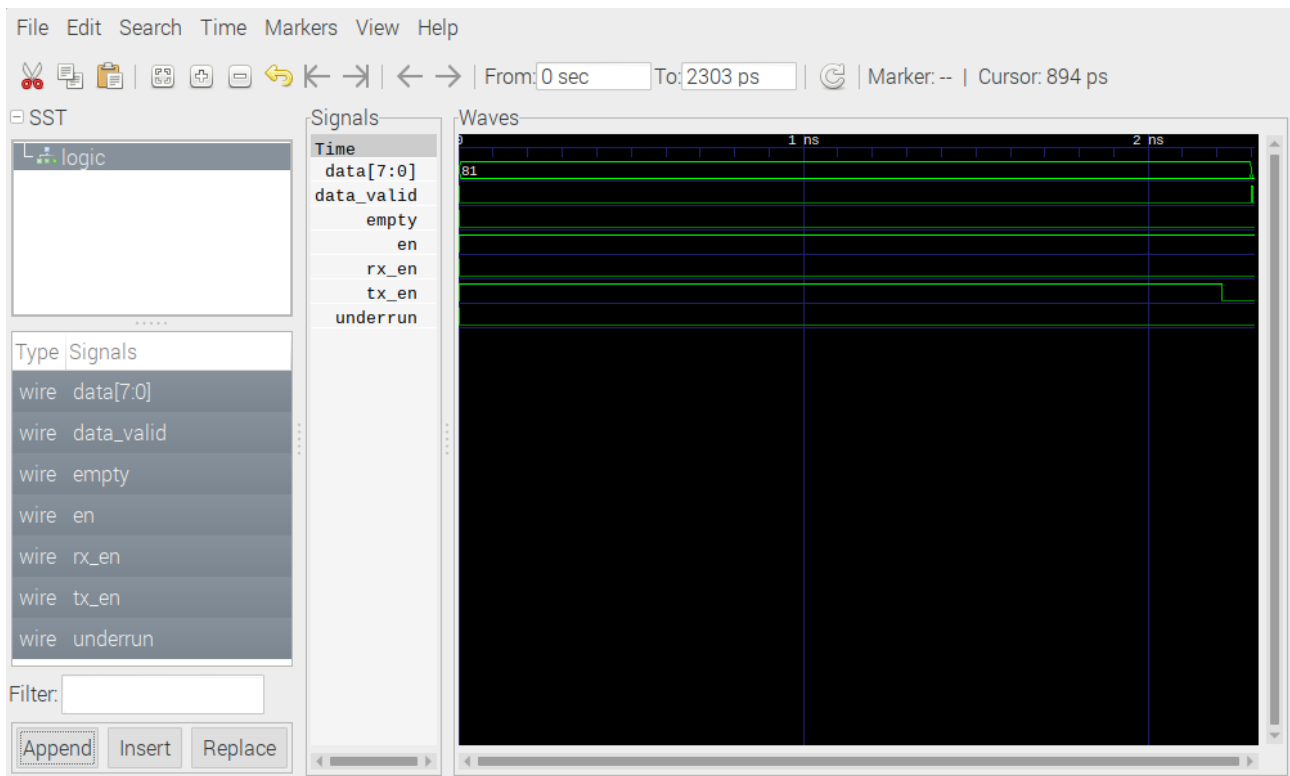
0,1,0,0,0,0,1,

0,0,0,0,0,0,1,

0,0,0,0,0,0,1,

downloaded an vcd example from https://en.m.wikipedia.org/wiki/Value_change_dump
to test.vcd

gtkwave test.vcd



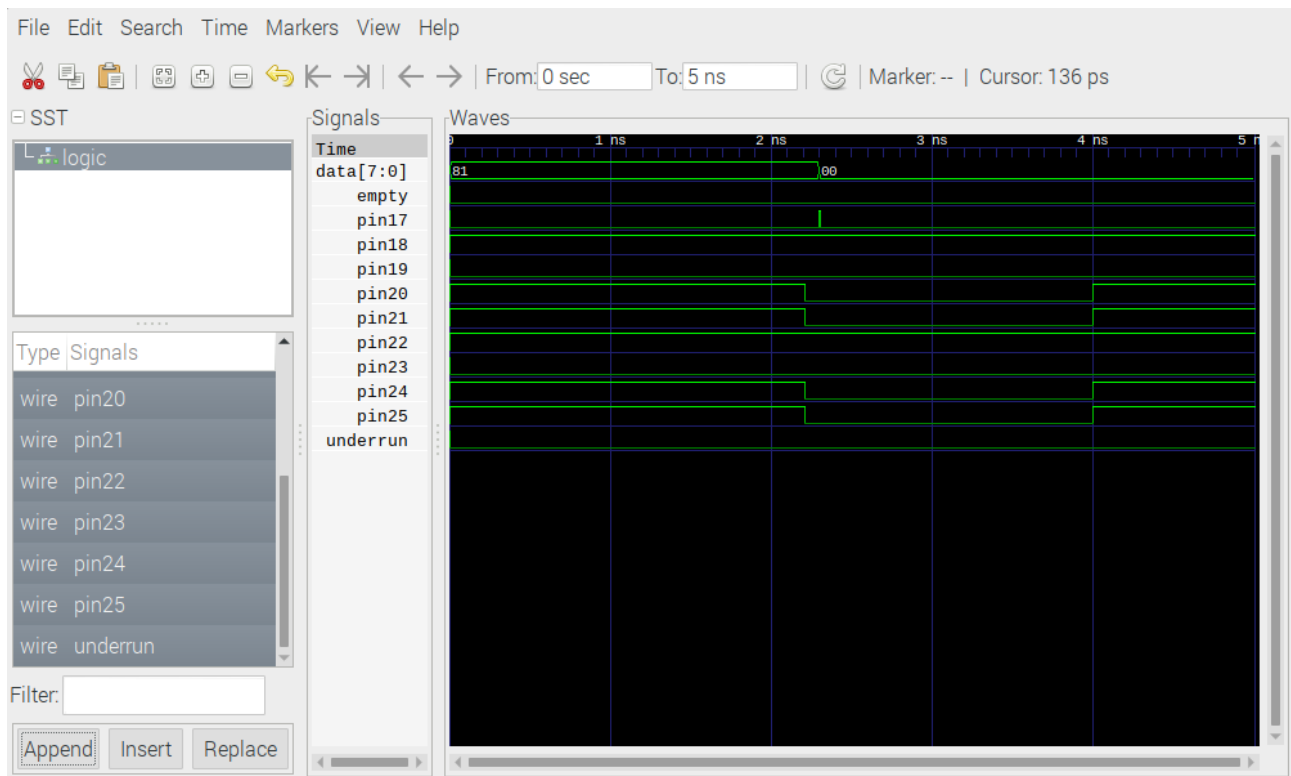
Made some changes to file and saved as test1.vcd

```

13,16c13,21
< $var wire 1 $ data_valid $end
< $var wire 1 % en $end
< $var wire 1 & rx_en $end
< $var wire 1 ' tx_en $end
---
> $var wire 1 $ pin17 $end
> $var wire 1 % pin18 $end
> $var wire 1 & pin19 $end
> $var wire 1 ' pin20 $end
> $var wire 1 ' pin21 $end
> $var wire 1 % pin22 $end
> $var wire 1 & pin23 $end
> $var wire 1 ' pin24 $end
> $var wire 1 ' pin25 $end
46c51,55
<
---
> #4000
> 1'
> #4010
> 0$
> #5000

```

gtkwave test1.vcd



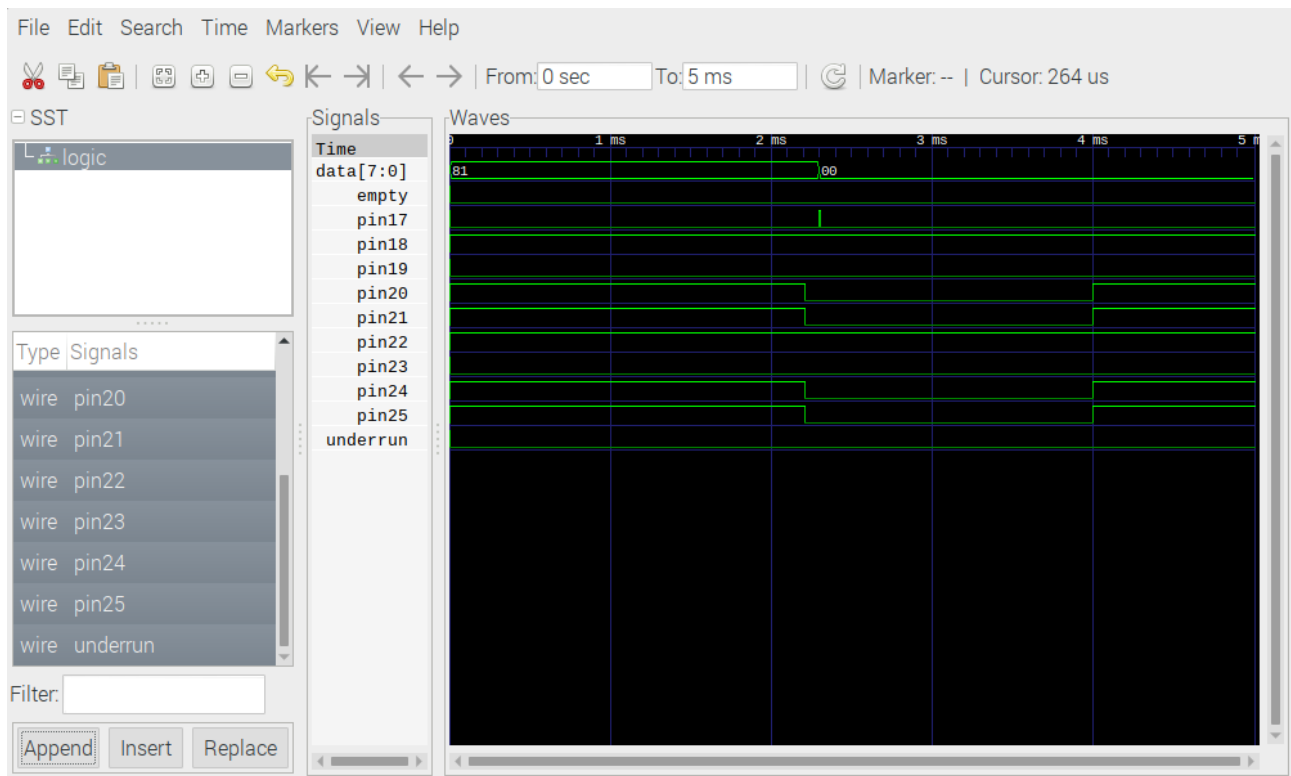
Change the timescale

```
< $timescale 1ps $end
```

```
---
```

```
> $timescale 1us $end
```

gtkwave test2.vcd



Changes for test3.vcd

The first is the name of module

11c11

< \$scope module logic \$end

> \$scope module pico \$end

36c36

< b10000001 #

> b00000001 #

53c53

< #4010

> #6010

55c55,62

< #5000

> #6015

> 0'

> #6020

> 1\$

> #6025

> 0'

> #6030

> 1\$

56a64,75

> #7000

> 1'

> #7010

```
> 0$  
> #8000  
> 0'  
> #8010  
> 1$  
> #8020  
> 0'  
> #8030  
> 1$
```

Now the time is further out to 8ms

