

MULTI_PO.TDD - Multi Channel Pulseout

Trigger

With a trigger condition set, the **MULTI_PO.TDD** samples for that condition to be met at the current **Timer-A Clock Rate**. This leads to a jitter between „trigger condition met“ and the resulting action as specified in the drivers command string, of up to a Timer-A Tick duration. To minimize this effect, a possibly high Timer-A Clock rate can be chosen.

See following 2 screen shots with the Trigger Signal and the Output Signal of the program sequence shown below:

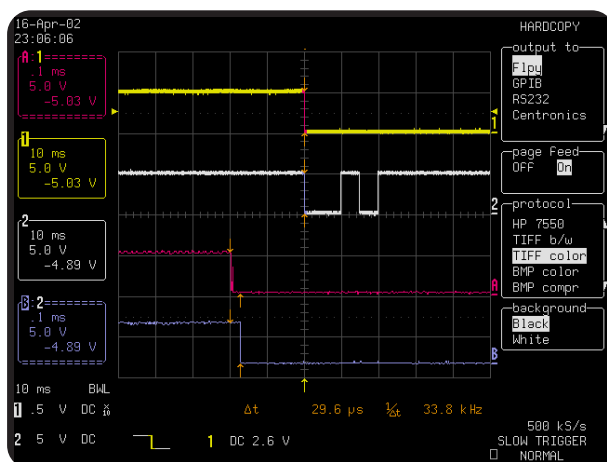
```

PUT #TA, #1,      2000                ' Set Timer-A to 2 kHz

\.....TIME..X1.X2.TIME..X1.X2.TIME..X1.X2.TIME..X1.X2.TIME..X1.X2.
\.....F.....F.....F.....F.....F      <-- Flags
PLSOUT$="01 60 00 00 14 00 07 00 0A 00 07 00 0A 00 07 00 0A 00 07 00 00%"

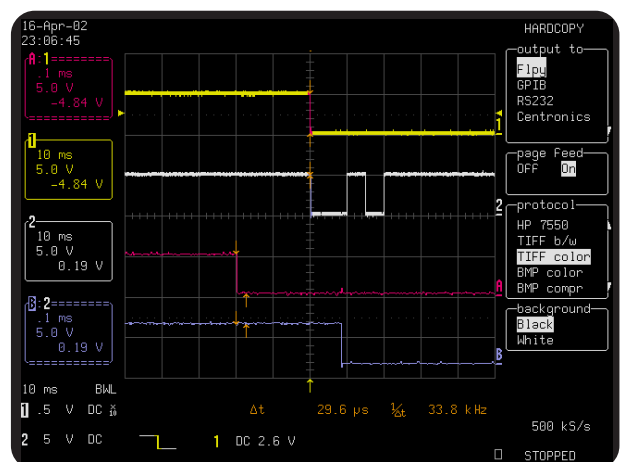
PUT #PLS, PLSOUT$      'pulse out

```



Ch-1: Trigger Signal 10 ms/div
Ch-2: Output Channel 10 ms/div
Ch-A: Trigger Signal 0,1 ms/div
Ch-B: Output Channel 0,1 ms/div

- Trigger to Out Jitter = 30 μ sec -



Ch-1: Trigger Signal 10 ms/div
Ch-2: Output Channel 10 ms/div

Ch-A: Trigger Signal 0,1 ms/div
Ch-B: Output Channel 0,1 ms/div

- Trigger to Out Jitter = 290 μ sec -