Configure

GPIF mode and FlowState.

Chip: CY7C68013A

The operating speed of the chip is High-speed.

Endpoint 6 is DIR = IN, TYPE = BULK, SIZE = 512, BUF = 2x512. GPIF uses FF flag.

Endpoint 6 : AUTOIN and WORDWIDE is 16 bit.

Set the Endpoint 6 AUTOIN packet length to 512 bytes.

GPIF Transaction Count is 256.

FlowState conditions shown in Figure 1.

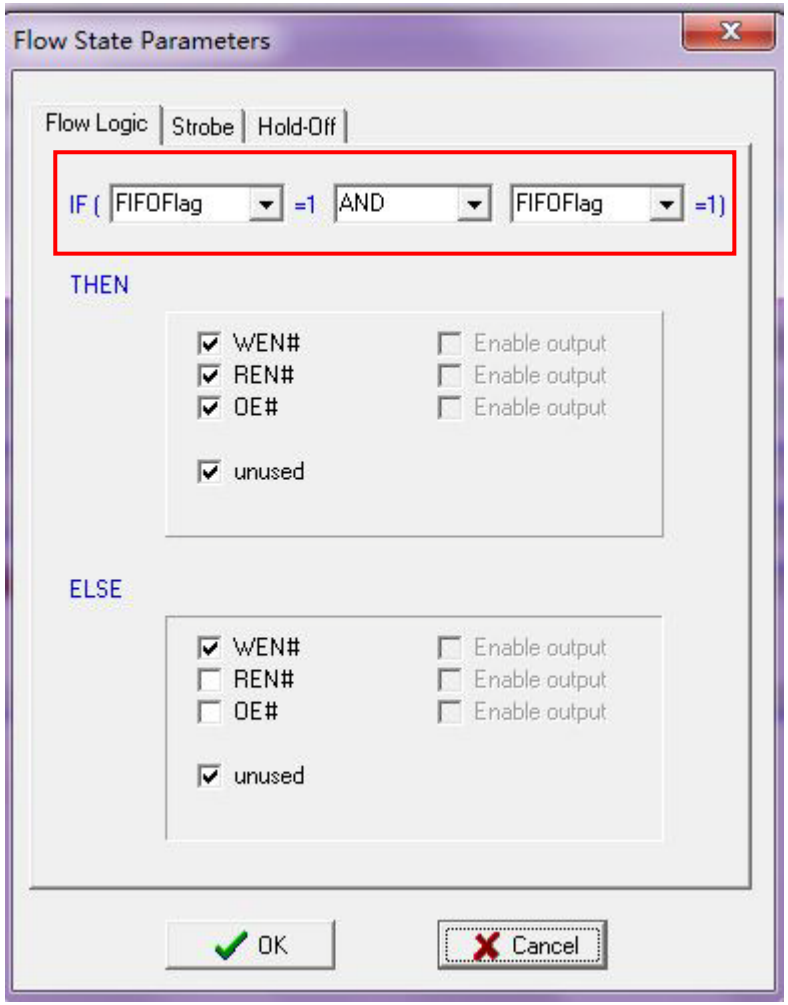
Flow State Parameters
Flow Logic
Strobe
Hold-Off
IF (FIFOFlag =1 AND FIFOFlag =1)
THEN
WEN#
REN#
OE#
unused
Enable output
Enable output
Enable output
ELSE
WEN#
REN#
OE#
unused
Enable output
Enable output
Enable output
OK
Cancel

Figure 1

The ChipScope wareform shown in Figure 2.

If I use the Endpoint 8 take the place of the Endpoint 6 to do the same experiment, it will occurs the same problem.

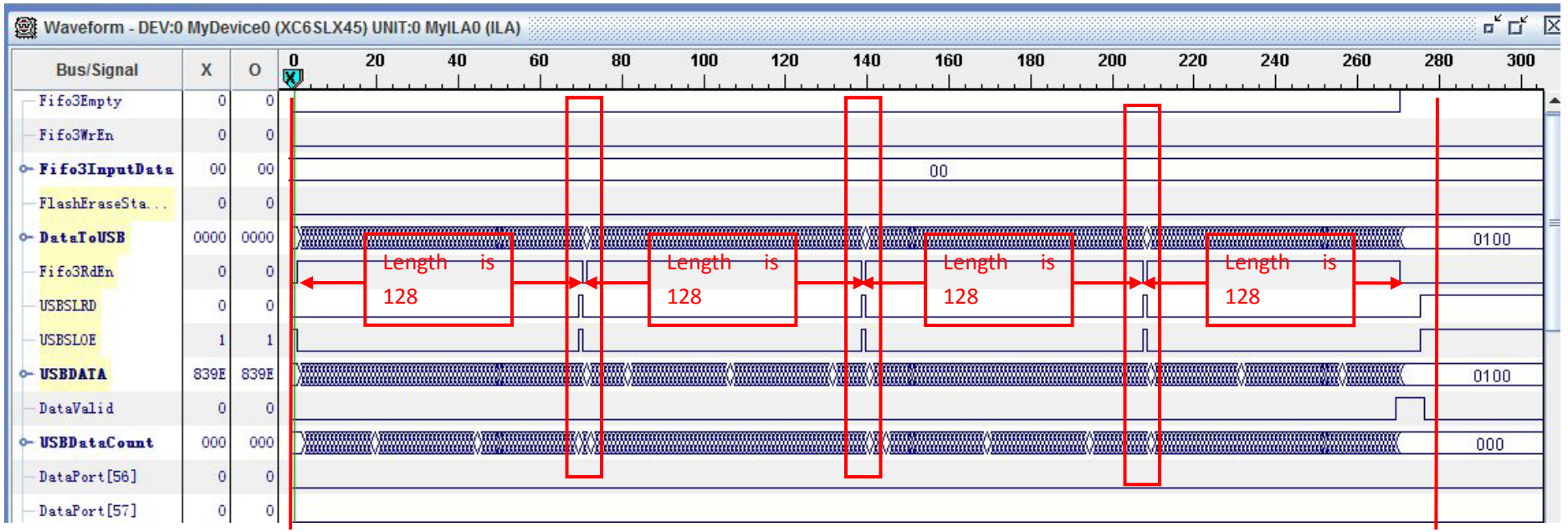

Figure 2

If Endpoint 6 is DIR = IN, TYPE = BULK, SIZE = 512, BUF = 4x512, others has not change. Then the ChipScope wareform shown in Figure 3.

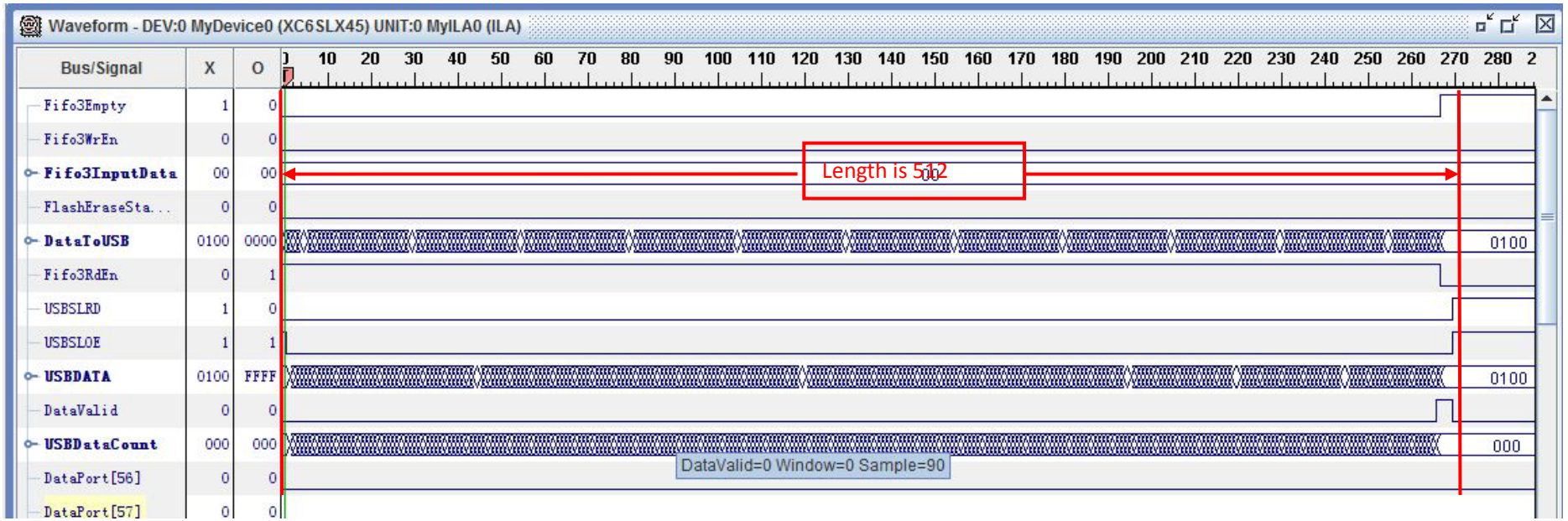

Figure 3

why?

I need the wareform like Figure 3 when EP6 is DIR = IN, TYPE = BULK, SIZE = 512, BUF = 2x512.

Thanks!