

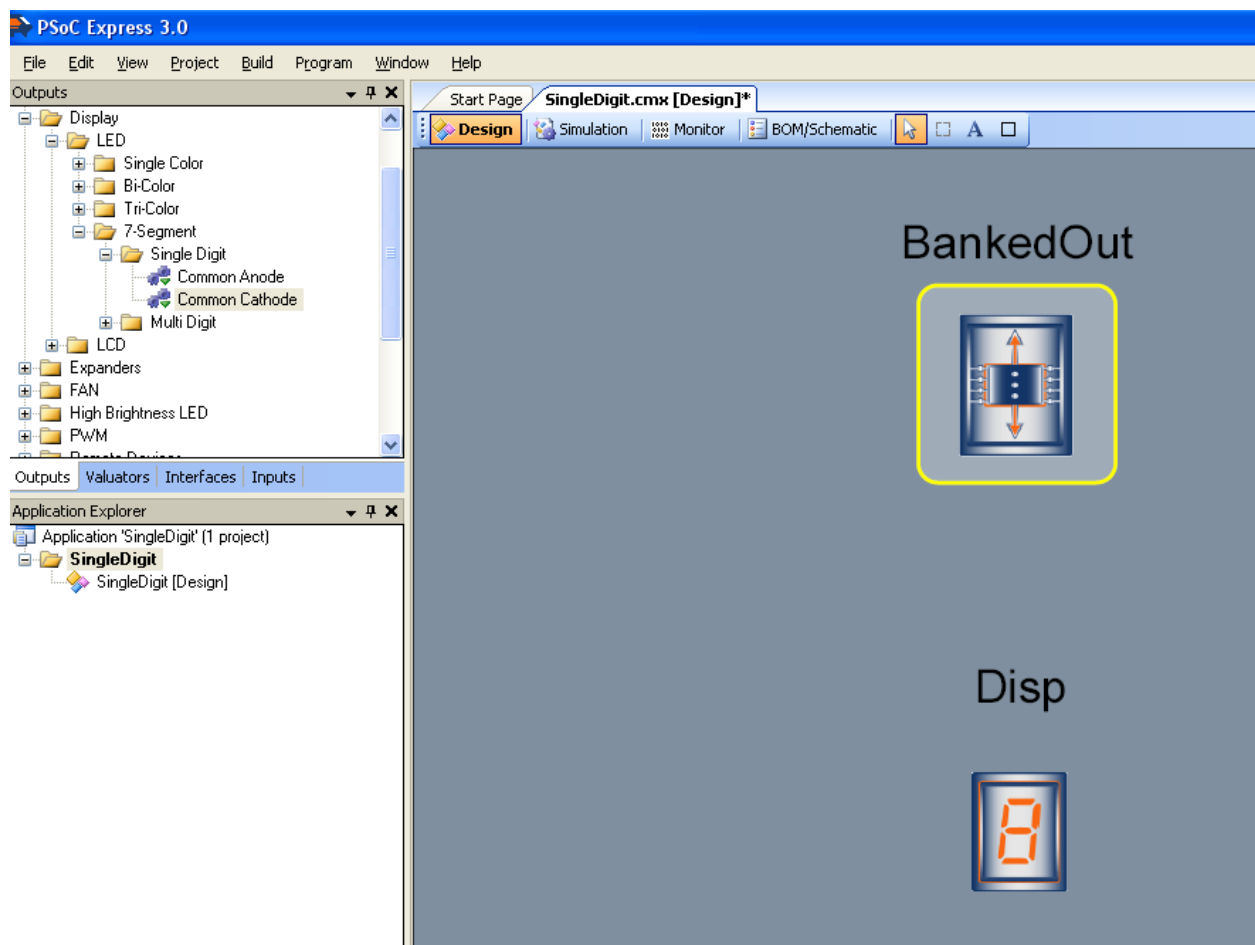
Case: Single digit 7 Segment display

Solution:

Platform used is World Tour Board

PSoC Express Project

Step1: Select single-digit common cathode display driver and banked output driver.



Step 2:

Select the priority encoder transfer function for display.

The screenshot shows a dialog box titled "Priority Encoder Transfer Function - Disp". It contains a text area with the following text: "if 1 then SEG7LED = 7" on the first line and "else if then SEG7LED =" on the second line. The text area is highlighted with a blue border. Below the text area, there are two small blue arrows (up and down) on the left, and two buttons labeled "OK" and "Cancel" on the right.

Step 3:

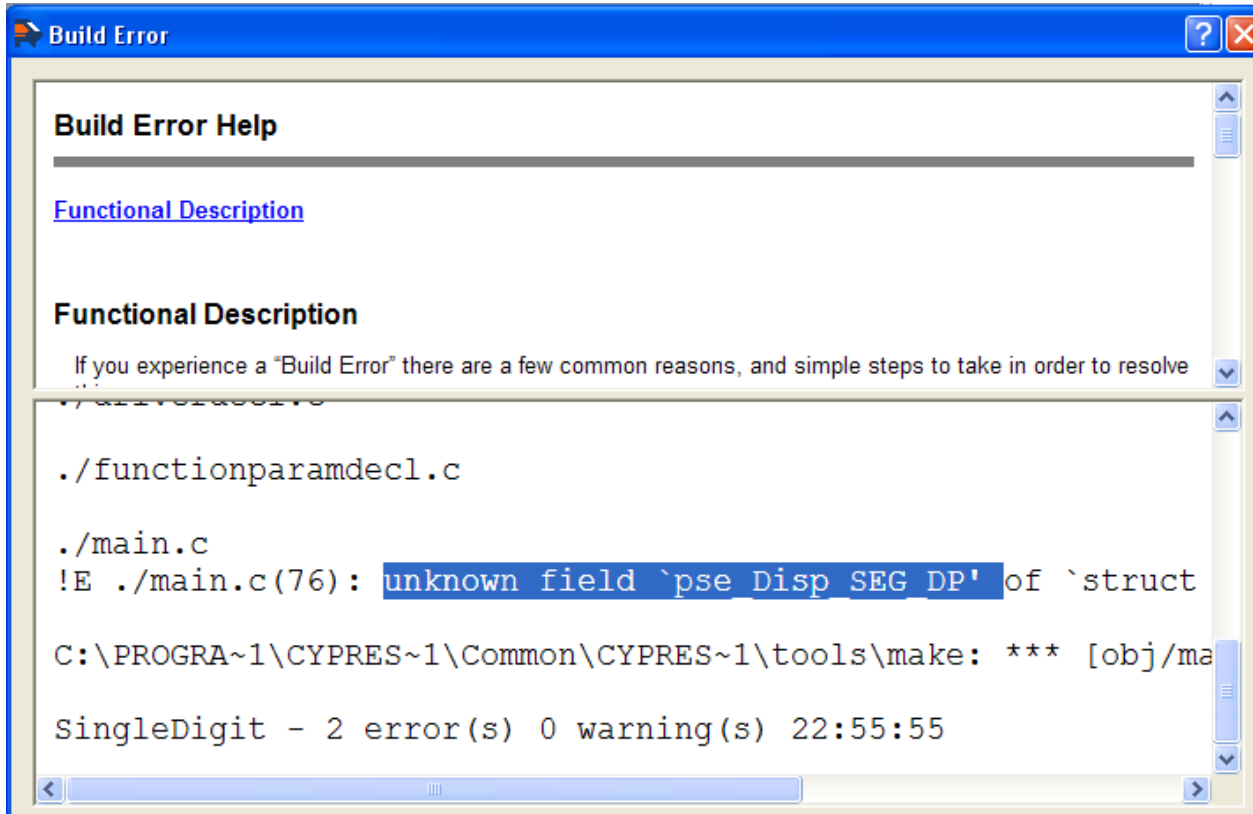
Select the priority encoder for banked out driver

The screenshot shows a dialog box titled "Priority Encoder Transfer Function - BankedOut". It contains a text area with the following text: "if 1 then BANKEDOUTPUT = 1" on the first line and "else if then BANKEDOUTPUT =" on the second line. The text area is highlighted with a blue border. Below the text area, there are two small blue arrows (up and down) on the left, and two buttons labeled "OK" and "Cancel" on the right.

Step 4:

Generate/ build it

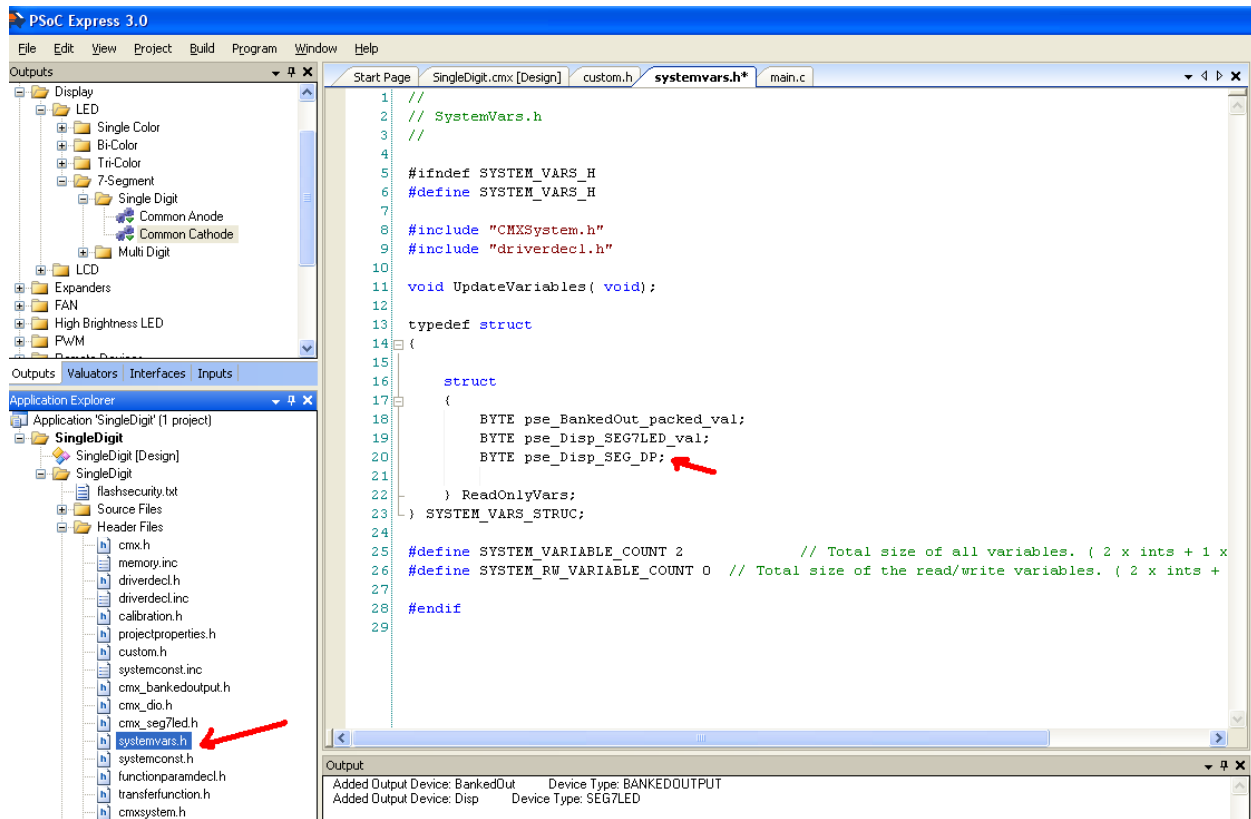
This will given an error as given below-



The screenshot shows a window titled "Build Error" with a blue header bar. Below the header, there is a section titled "Build Error Help" with a horizontal line underneath. A link labeled "Functional Description" is visible. Below this, another section titled "Functional Description" contains a paragraph of text: "If you experience a 'Build Error' there are a few common reasons, and simple steps to take in order to resolve". Below the text, there is a list of files: `./functionparamdecl.c` and `./main.c`. The error message is: `!E ./main.c(76): unknown field 'pse Disp SEG DP' of 'struct`. Below the error message, the path `C:\PROGRA~1\CYPRES~1\Common\CYPRES~1\tools\make: *** [obj/ma` is partially visible. At the bottom, the summary `SingleDigit - 2 error(s) 0 warning(s) 22:55:55` is shown. The window has standard Windows window controls (minimize, maximize, close) in the top right corner and a scrollbar on the right side.

```
Build Error Help
Functional Description
Functional Description
If you experience a "Build Error" there are a few common reasons, and simple steps to take in order to resolve
./functionparamdecl.c
./main.c
!E ./main.c(76): unknown field 'pse Disp SEG DP' of 'struct
C:\PROGRA~1\CYPRES~1\Common\CYPRES~1\tools\make: *** [obj/ma
SingleDigit - 2 error(s) 0 warning(s) 22:55:55
```

Step 4: Declare this variable in the structure.

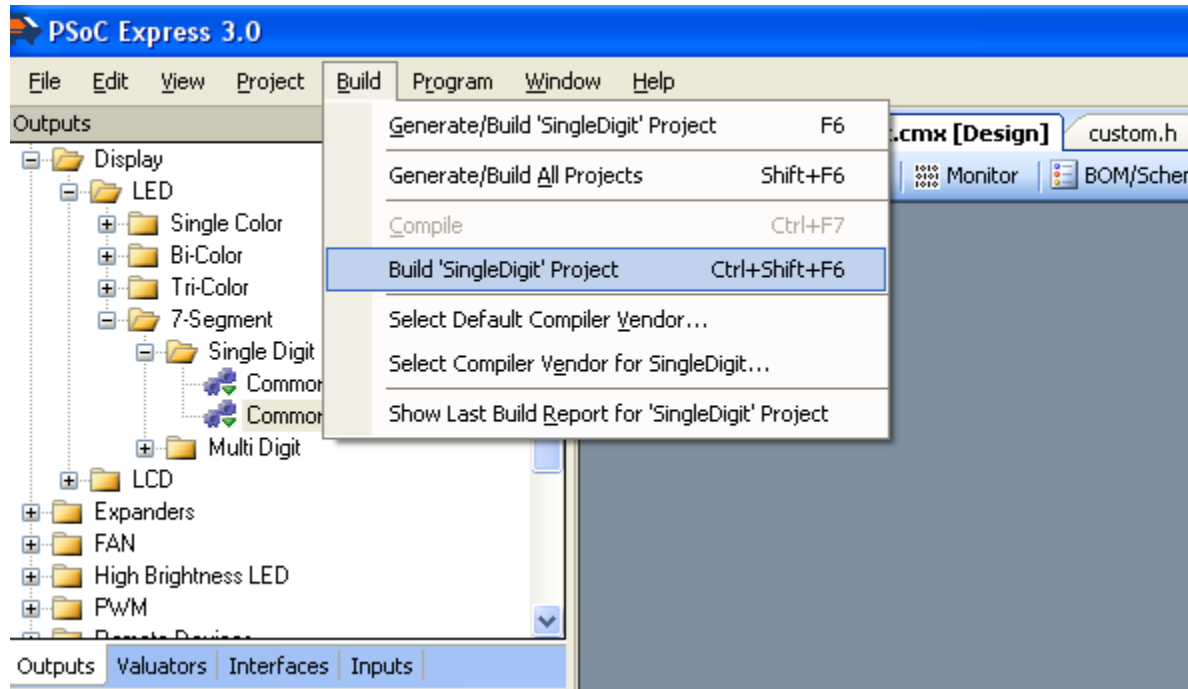


Step 5:

Save all. Go to file menu and save all.

Step 6:

Build the project.



Step 7:

Program the Chip.

Note: open the PSoC programmer and load the hex file. Programmer will not open through menu.

NOTE: There is no need of banked out driver if the cathode of 7 segment display is grounded.

As world tour board was used, digit's cathode is connected to FET drain. So FET is enabled through this driver.