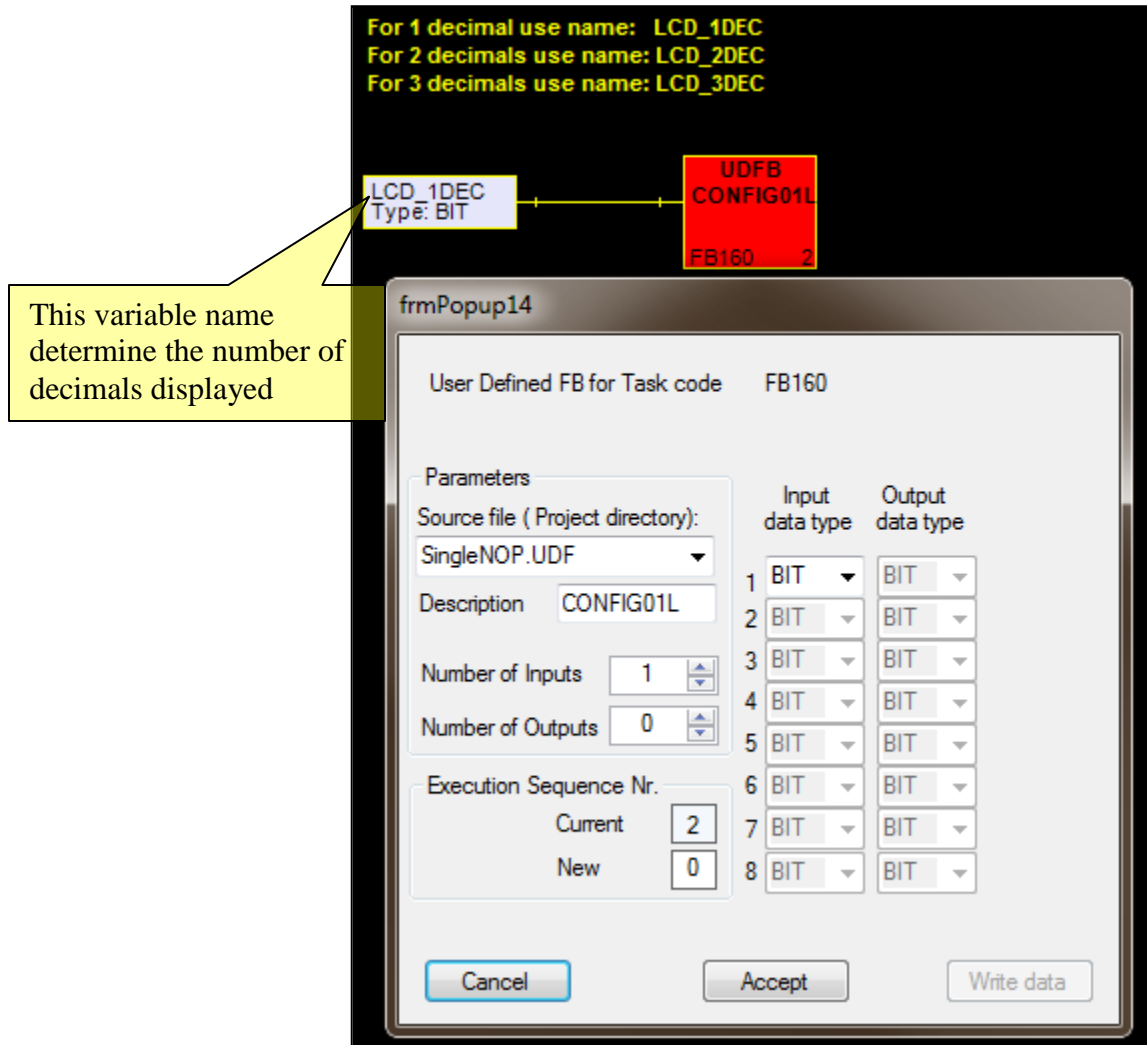


## LCD DISPLAY – Number of Decimals displayed

15 January 2015

Function Block 145 (Display FP32 on LCD) will display floating point values using 11 character positions, of which the last 4 will be the digits after the decimal point. For many applications the 4 digits is not required. VPS\_P18 offer a mechanism whereby you can select 1, 2, or 3 digits. Note that this selection will then apply to all FB145 instances of the application, and the decimal digits are truncated without using rounding.



The above screenshot shows what is required to configure the LCD display for displaying 1, 2, or 3 decimals. First generate a text file with any name and extension .UDF (I used SingleNOP.UDF) and place it in your project directory. Use the following text as contents of your source file:

```
;-----  
NOP  
;-----
```

Place a FB160 (User Defined Function) on any code page of either a Cyclic or Time task. Open the popup for this FB160 (with a double click on the block) and do the following on the popup:

1. Select the name of the source file (SingleNOP.UDF) generated above.
2. Select Number of Inputs = 1
3. Select Number of Outputs = 0
4. Make input 1 Data type = BIT
5. In the Description box enter CONFIG01L
6. Operate Accept button

Now add a Read Connector, make its data type BIT and give it the name LCD\_1DEC  
Your LCD display will now display floating point values with only one decimal. If you make the read connector name LCD\_2DEC you will have two decimals, and LCD\_3DEC will give you 3 decimal places.

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