

System requirements

To deploy the example you will need:

- LabVIEW Development System >= 2017
- LabVIEW Real Time and FPGA Modules (with compilation tools) of a corresponding version
- Compact RIO drivers of a corresponding version
- NI SB-RIO 9651 (SOM)

in case you have problem discovering, connecting or deploying the example on the target, you can use MAX to determine if there is a software missing

Expression_Scanner_Example.vi

Compile and run the example, check that it stops on the first match.

In this example the expression to be scanned is constant "S", "T" sequence which corresponds to the codes "83", "84".

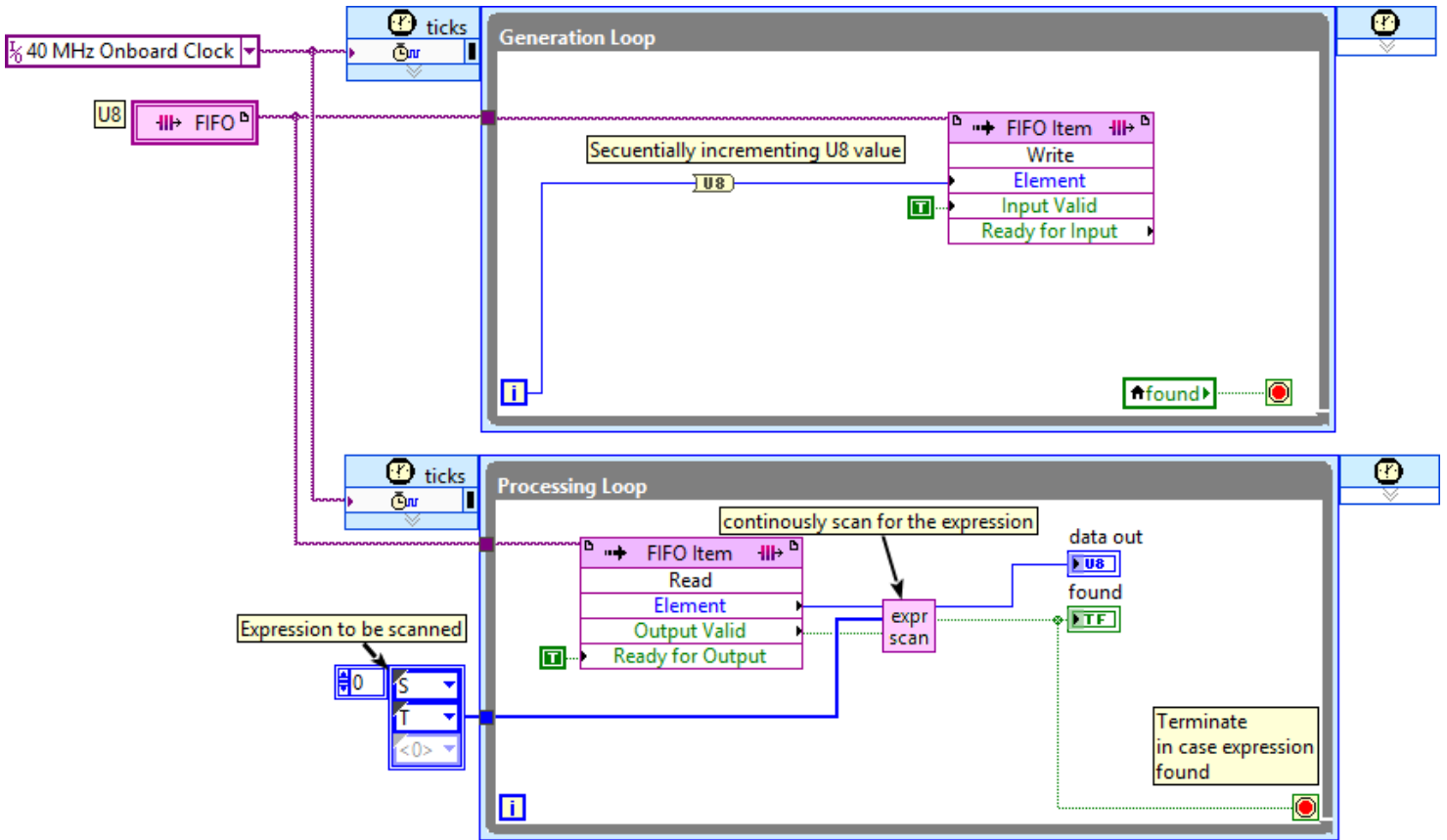
Since the streaming data is sequentially incrementing according to iteration terminal of the "Generation Loop",

the program will stop and return "found" == True on "data out" == "84".



Compile and run the example
The example consists of two timed loops. The Generation Loop fills the FIFO with continuously incrementing U8 values. The Processing Loop searches for the constant expression and stops the program in case found.

found data out



Expression_Scanner.lvlib:character.ctl

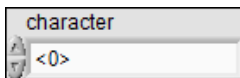
< LabVIEW />:\vi.lib\Grovf\Expression Scanner\LicensedLib\Controls\character.ctl

Expression_Scanner.lvlib:gvfdb__expression_scanner.vi

< LabVIEW />:\vi.lib\Grovf\Expression Scanner\LicensedLib\SubVIs\gvfdb__expression_scanner.vi

Expression_Scanner.lvlib:character.ctl

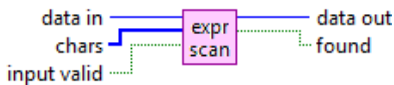
GROVF
expr
scan

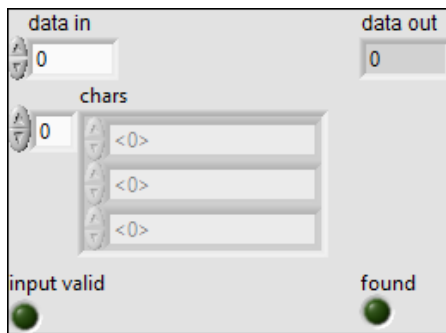


Expression_Scanner.lvlib:gvfdb__expression_scanner.vi

Preallocated clone reentrant execution VI.

This VI implements scan of expression (the array of chars) in data in and returns the boolean to indicate if the expression match occurred.





U8 data in

char data to be processed

TF input valid

U8 chars

Expression to be scanned

U8 operator

TF found

Expression found if true

U8 data out

char data processed

**GROVF
expr
scan** Expression_Scanner.lvlib:character.ctl

< LabVIEW />:\vi.lib\Grovf\Expression Scanner\LicensedLib\Controls\character.ctl

Support

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