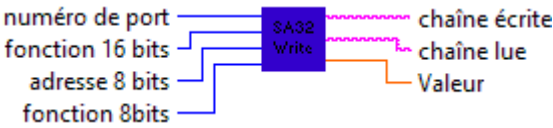


sa32 write.vi



numéro de port
0

fonction 16 bits
0

adresse 8 bits
0

fonction 8bits
0

chaîne écrite
0103 001E 0003 65CD

chaîne lue
0103 0600 0000 0000 0361 74

Valeur
0,00000

LSB
65

MSB
CD

code d'erreur
x0

valeur paramètres
(16 bits)
(décimal)

0
23
0
0
0
0
0
0
0
0
0
0
1

Tableau

0
0
3
0
0
0
0
0
0
0
0

Erreur
0

I32 **numéro de port[port number] numéro de port** Les paramètres pour les **numéros de ports** série dépendent de la plate-forme que vous utilisez : Windows, Macintosh ou UNIX.

U16 **adresse 8 bits**

U8 **fonction 16 bits**

I16 **fonction 8bits**

EXT **Valeur[Valeur]**

abc **chaîne écrite[string to write]** "chaîne à écrire" représente les données à écrire sur le port série. Si le nombre de caractères dans chaîne à écrire est supérieur à la taille du buffer spécifiée dans Initialiser le port série, c'est le nombre de caractères égal à la taille du buffer qui sera écrit.

abc **chaîne lue[string read 3]** Le VI retourne les octets lus dans chaîne lue.

U8 **LSB[LSB]**

U8 **MSB[MSB]**

I32 **code d'erreur[error code]** Si **code d'erreur** est non nul, une erreur a eu lieu. Vous pouvez câbler **code d'erreur** à l'un des VIs gestionnaires d'erreur, qui décrivent l'erreur et vous donnent des options sur la manière de procéder lorsqu'une erreur survient. Certains codes d'erreur renvoyés par les VIs de port série sont spécifiques à une plate-forme. Veuillez vous reporter à la documentation de votre système pour obtenir une liste des codes d'erreur.

{ U8 } **tableau d'octets non signés**

U8

I32 **taille(s)[taille(s)]**

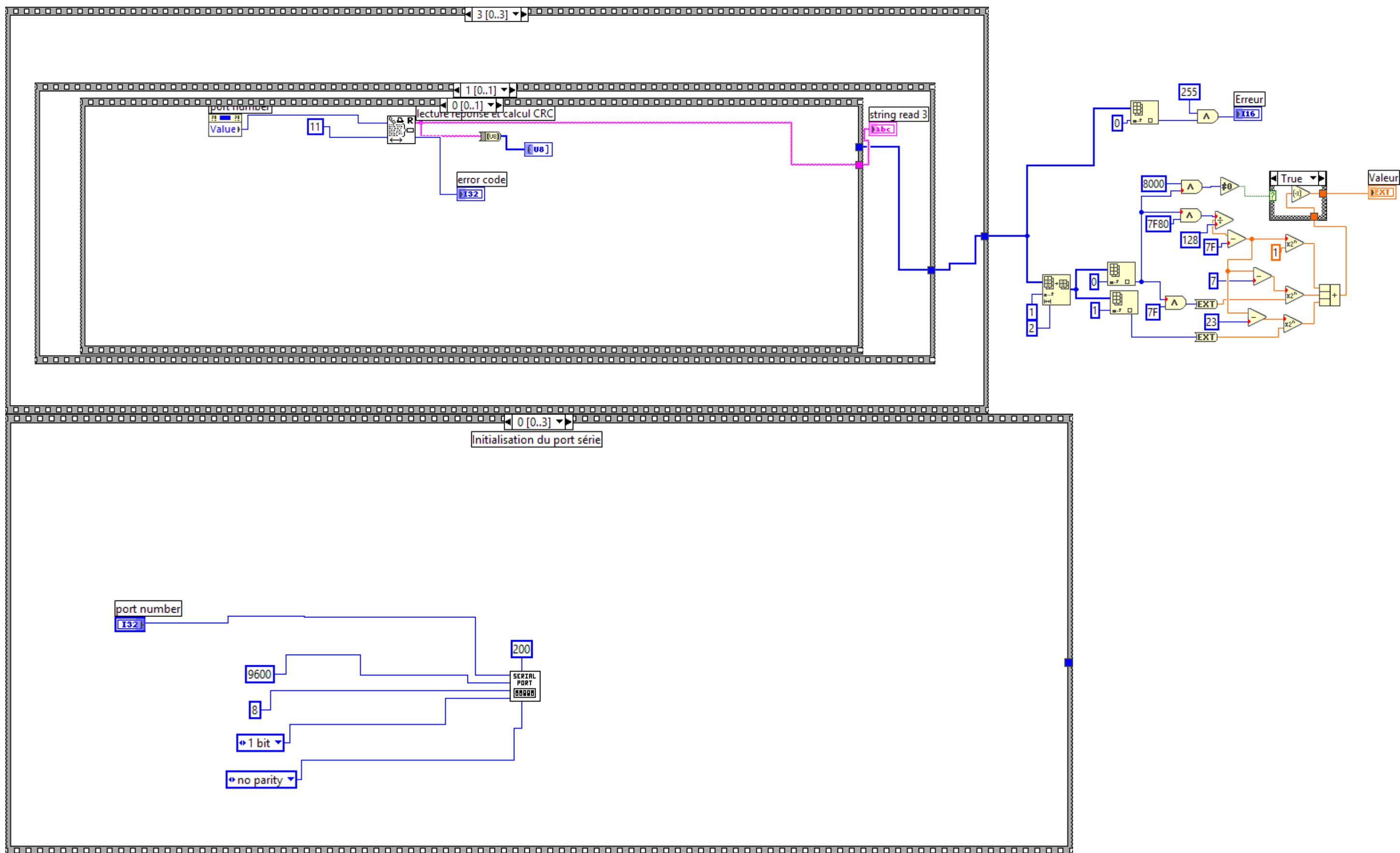
{ U16 } **Tableau[Tableau]**

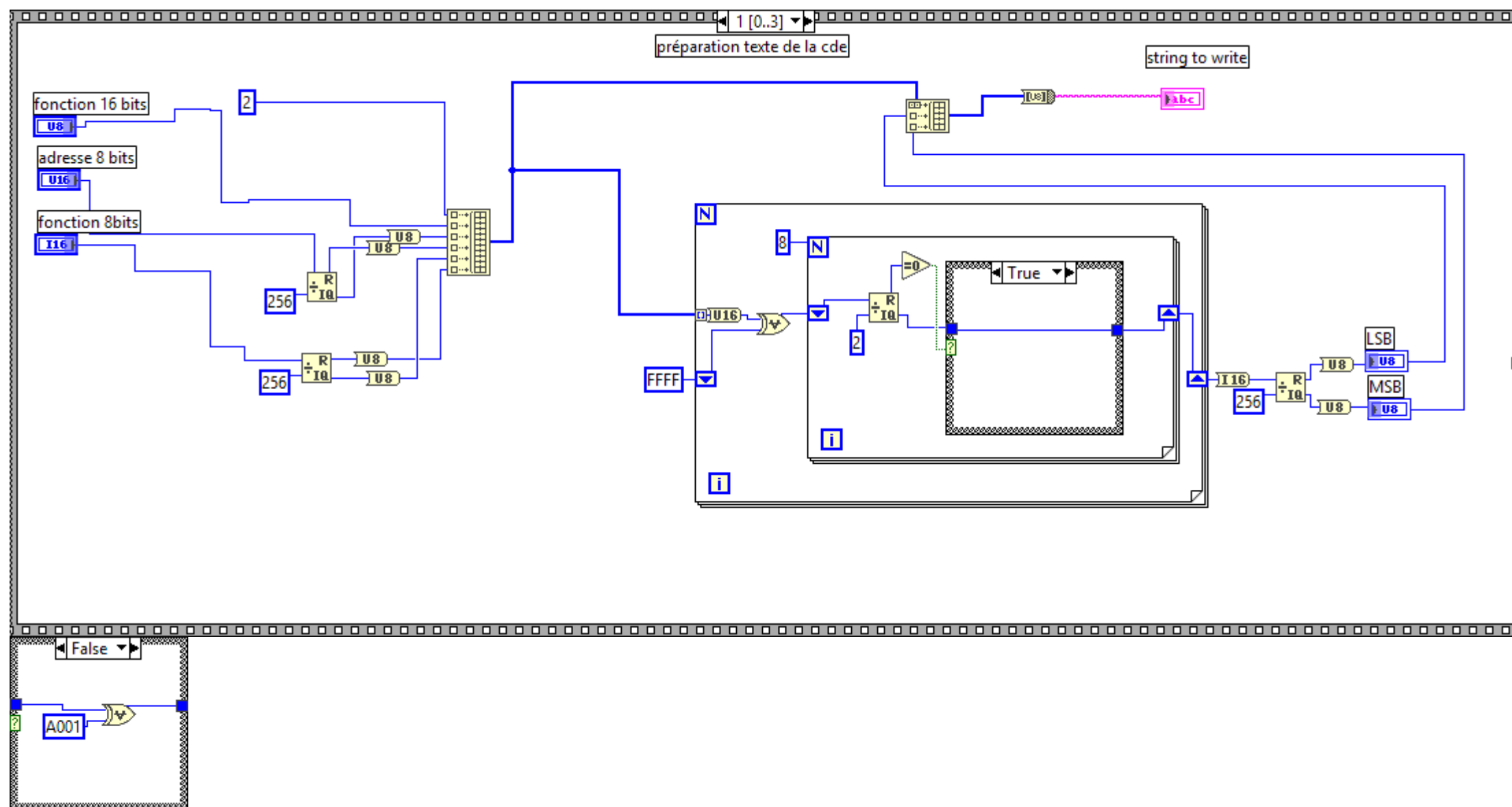
U16 **Nouvel élément[Nouvel élément]**

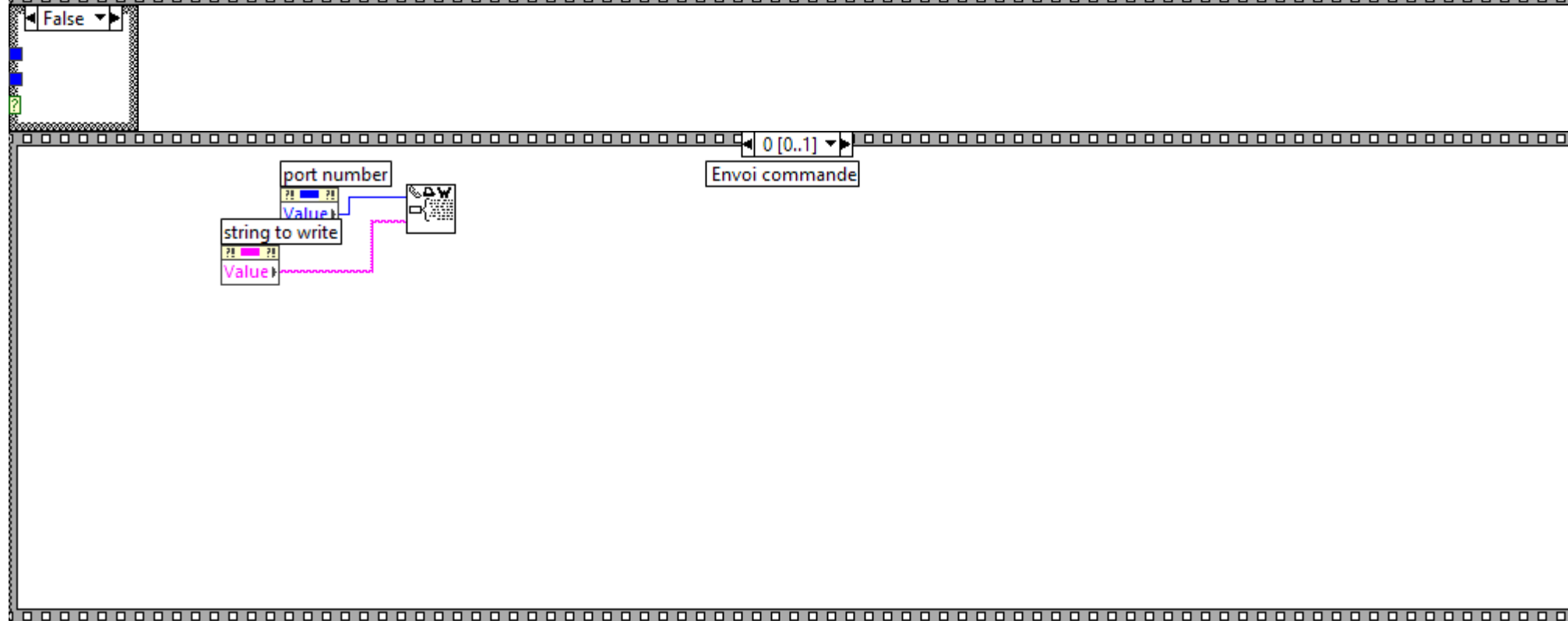
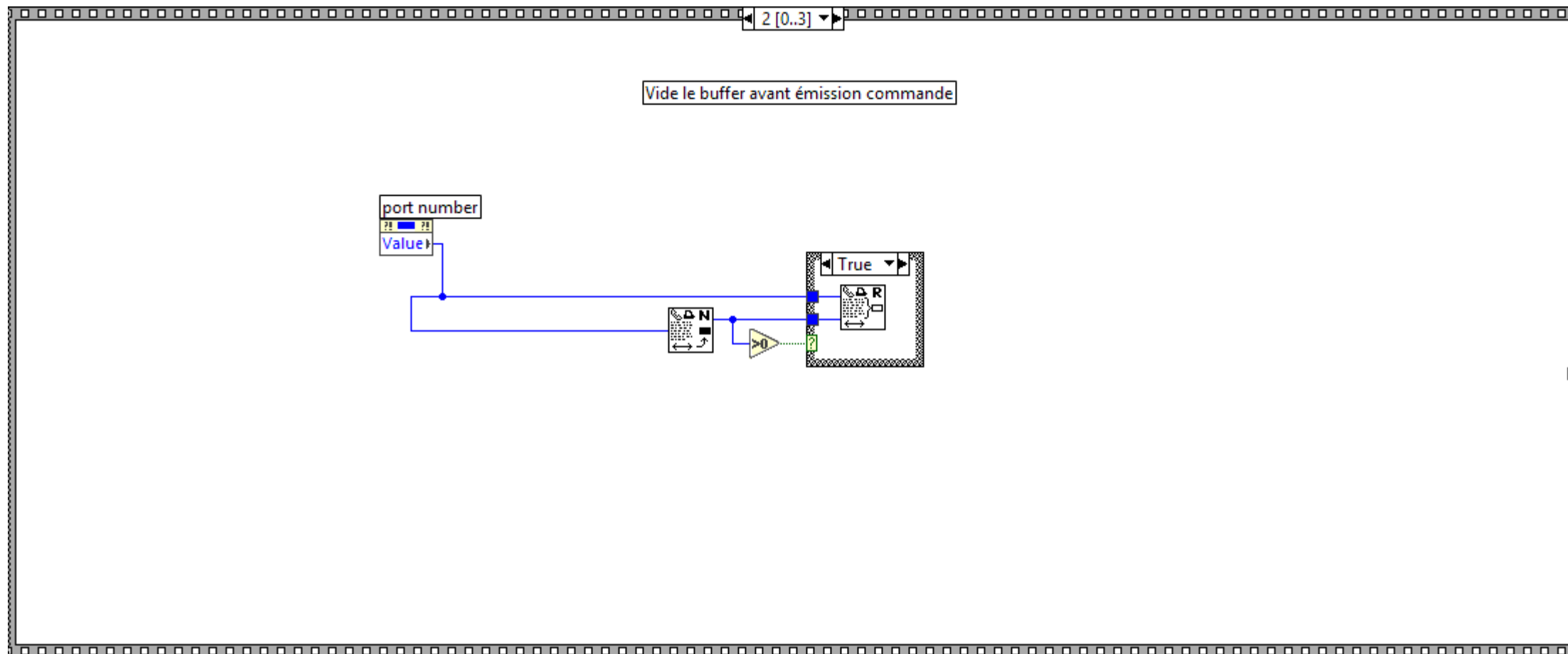
{ I16 } **valeur paramètres (16 bits) (décimal)[valeur paramètres (16 bits) (décimal)]**

I16 **[]**

I16 **Erreur**









<p>Initializes the serial port specified by VISA resource name to the specified settings. Wire data to the VISA resource name input to determine the polymorphic instance to use or manually select the instance.</p>

Diagram illustrating the configuration of a serial port. The inputs are:

- baud rate (9600)
- data bits (8)
- parity (0:none)
- error in (no error)
- flow control (0:none)

The serial port is connected to a block labeled "SERIAL". The output of the serial port is an 8-bit bus, which is connected to an "error out" signal.

VISA resource name VISA resource name specifies the resource to be opened. The VISA resource name control also specifies the session and class.

- U32

timeout (10sec) timeout specifies the time, in milliseconds, for the write and read operations.
- U32

baud rate (9600) baud rate is the rate of transmission.
- U16

data bits (8) data bits is the number of bits in the incoming data.
- ↔

parity (0:none) parity specifies the parity used for every frame to be transmitted or received.
- U8

termination char (0xA = '\n' = LF) termination char calls for termination of the read operation. The read operation terminates when the termination char is read from the serial device.
- Err

error in (no error) error in describes error conditions that occur before this node runs. This input provides standard error in functionality.
- TF

status status is TRUE (X) if an error occurred before this node ran or FALSE (checkmark) to indicate a warning or that no error occurred before this node ran. The default is FALSE.
- I32

code code is the error or warning code. The default is 0.
- abc

source source specifies the origin of the error or warning and is, in most cases, the name of the node that produced the error or warning. The default is an empty string.
- U16

stop bits (10: 1 bit) stop bits specifies the number of stop bits used to indicate the end of a frame.
- TF

Enable Termination Char (T) Enable Termination Char prepares the serial device to recognize termination char.
- U16

flow control (0:none) flow control sets the type of control used by the transfer mechanism.
- Err

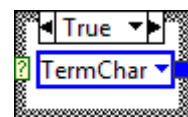
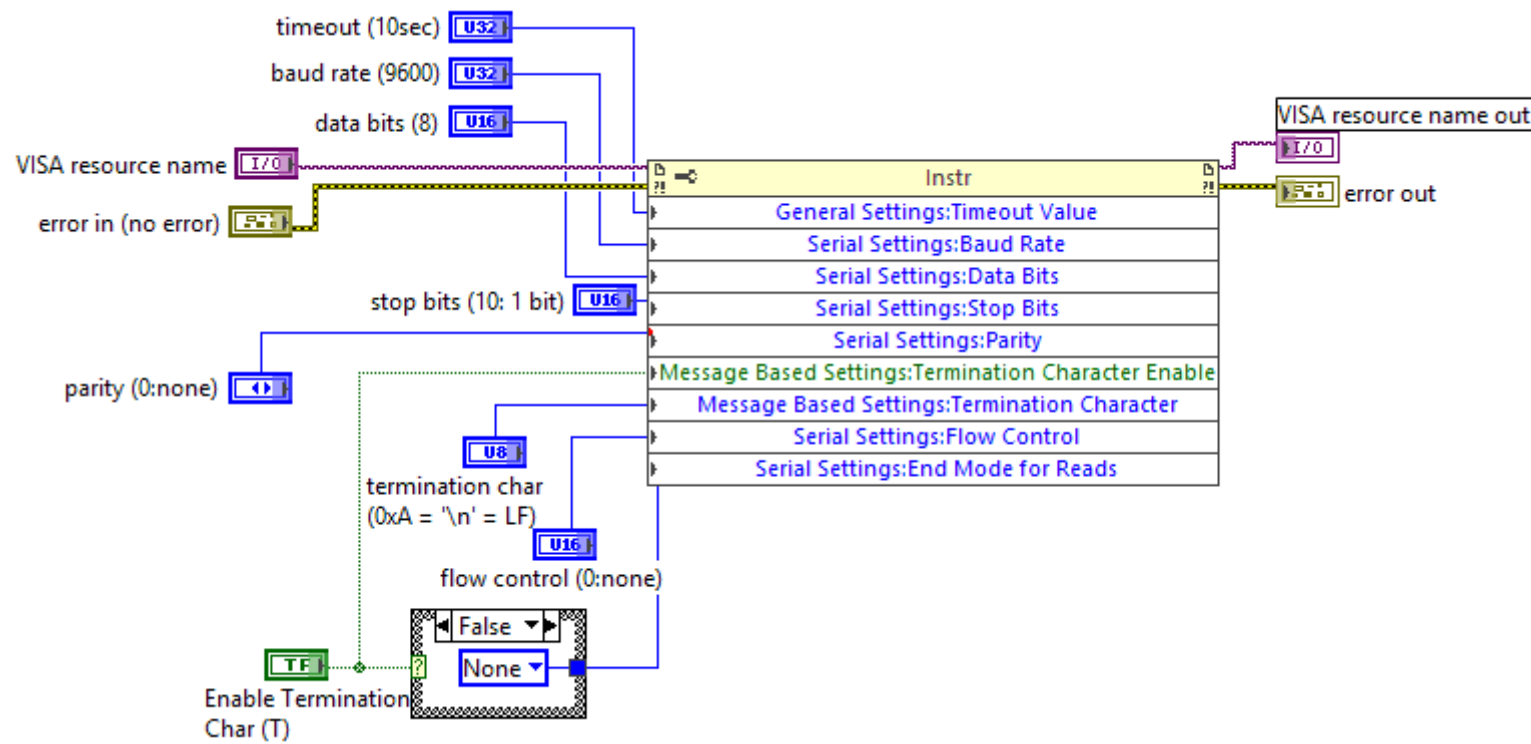
error out error out contains error information. This output provides standard error out functionality.
- TF

status status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.
- I32

code code is the error or warning code.
- abc

source source describes the origin of the error or warning and is, in most cases, the name of the node that produced the error or warning.
- I/O

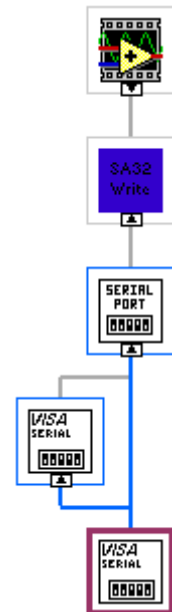
VISA resource name out VISA resource name out is a copy of the VISA resource name that VISA functions return.



"VISA Configure Serial Port (Instr).vi History"

Current Revision: 113

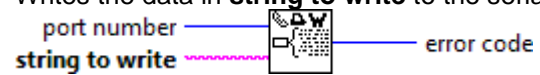
Position in Hierarchy

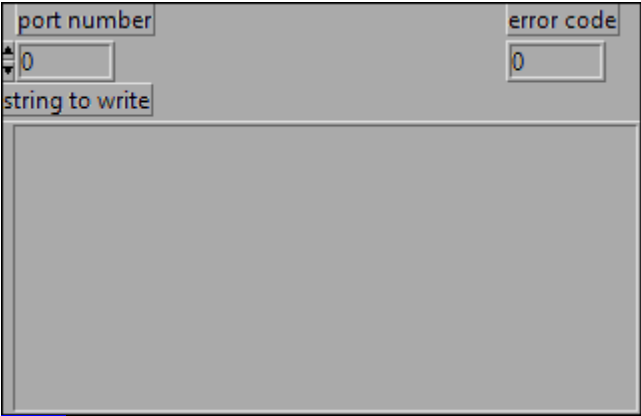


Iconified Cluster Constants

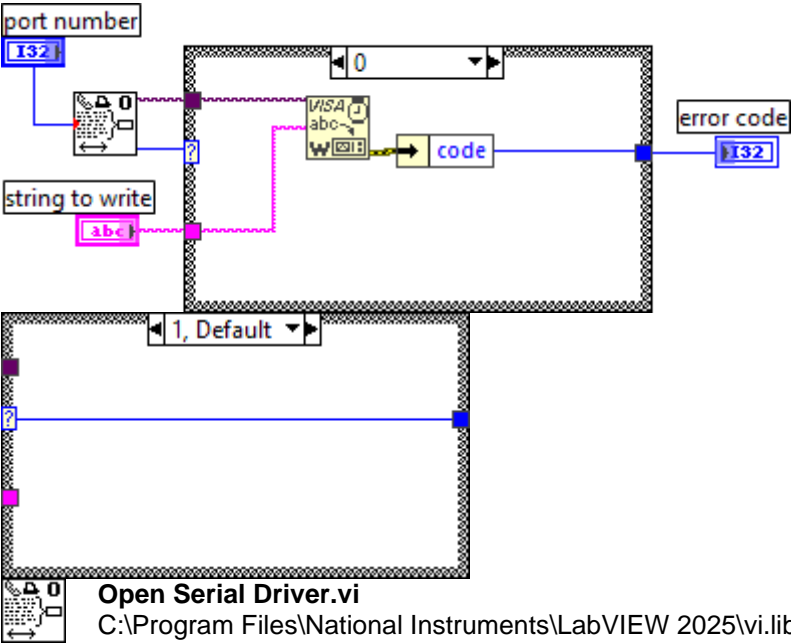
Serial Port Write.vi

Writes the data in **string to write** to the serial port indicated in **port number**.





- port number** is the serial port.
- string to write** is the data to write to the serial port.
- error code** is the error or warning code. If **error code** is nonzero, an error occurred. You can wire **error code** to one of the error handler VIs, which describe the error and give you options on how to proceed when an error occurs.



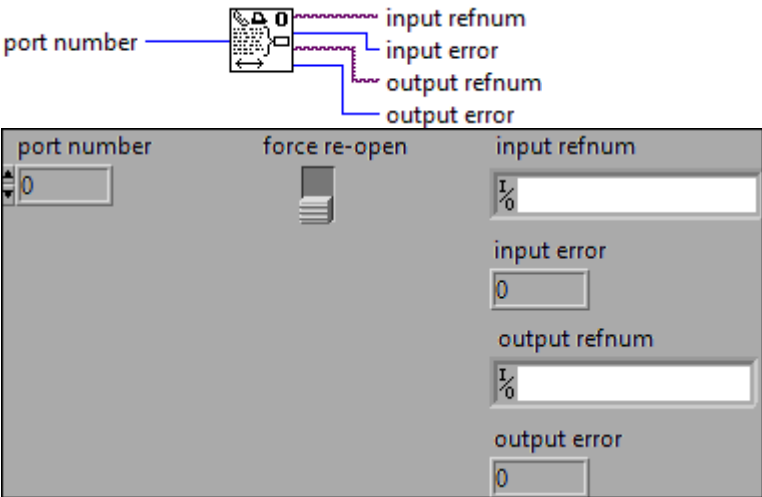
"Serial Port Write.vi History"
Current Revision: 24

Position in Hierarchy



Iconified Cluster Constants

Open Serial Driver.vi



U32 port number

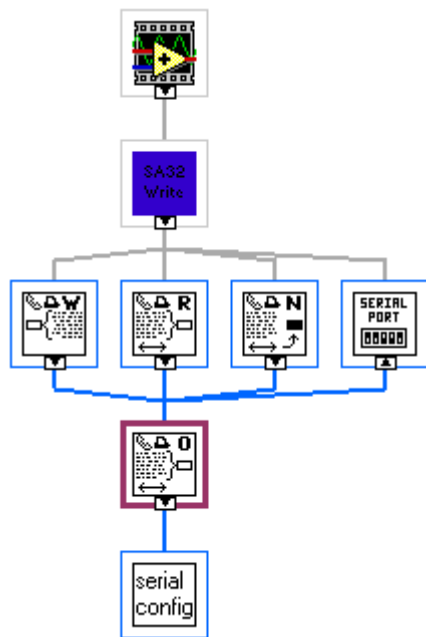
TF force re-open

I16 input refnum

I16 output refnum

I32 input error

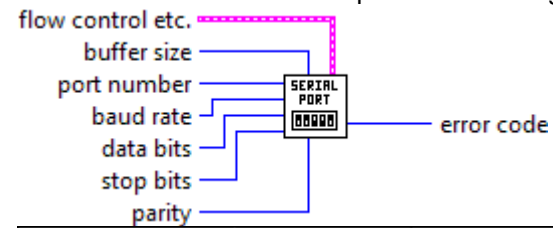
I32 output error



Iconified Cluster Constants

Serial Port Init.vi

Initializes the selected serial port to the settings you specify.



flow control etc.		error code
port number	input XON/XOFF	0
0	input HW Handshake	
baud rate	input alt HW HShk	
9600	output XON/XOFF	
data bits	output HW Handshake	
8	output alt HW HShk	
stop bits	XOFF byte	
1 bit 0	XON byte	
parity	parity error byte	
no parity 0	x13	
buffer size	x11	
0	x0	

U32 baud rate baud rate is the rate of transmission. The default is 9600.

stop bits stop bits specifies the number of stop bits used to indicate the end of a frame.

parity parity specifies the parity used to transmit or receive every frame.

U16 **data bits** **data bits** is the number of bits in the incoming data and can be between 5 and 8. The default is 8.

U16 **buffer size** **buffer size** indicates the size of the input and output buffers the VI allocates for communication through the specified port.

I32 **port number** **port number** is the serial port.

E11 **flow control etc.** **flow control etc.** enables you to set options for the serial port.

TF **input XON/XOFF** **input XON/XOFF** is a software handshaking protocol you can use to avoid overflowing the serial port buffers. The default is FALSE.

TF **input HW Handshake** **input HW Handshake** corresponds to Request To Send (RTS) handshaking. The default is FALSE.

TF **input alt HW HShk** **input alt HW HShk** corresponds to Data Terminal Ready (DTR) handshaking. The default is FALSE.

TF **output XON/XOFF** **output XON/XOFF** is a software handshaking protocol you can use to avoid overflowing the serial port buffers. The default is FALSE.

TF **output HW Handshake** **output HW Handshake** corresponds to Clear to Send (CTS) handshaking. The default is FALSE.

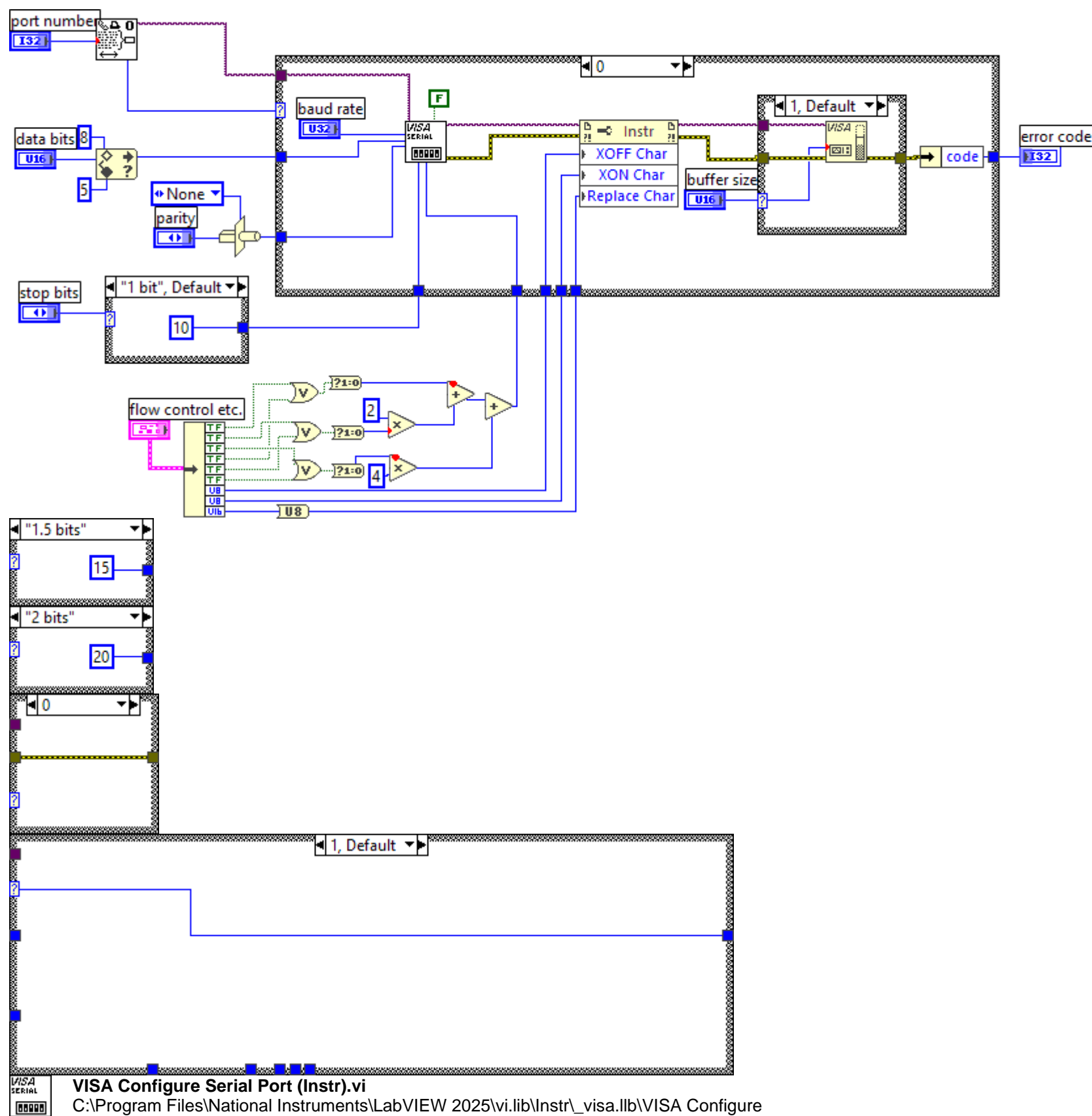
TF **output alt HW HShk** **output alt HW HShk** corresponds to Data Set Ready (DSR) handshaking. The default is FALSE.

U8 **XOFF byte** **XOFF byte** is the byte used for XOFF (^S). The default is 0x13.

U8 **XON byte** **XON byte** is the byte used for XON (^Q). The default is 0x11.

U16 **parity error byte** **parity error byte** determines the behavior when a parity error occurs. If the high byte is nonzero, the low byte is the character that replaces any parity errors found when you enable parity. The default is 0.

I32 **error code** **error code** is the error or warning code. **error code** is -1 if **baud rate**, **data bits**, **stop bits**, **parity**, or **port number** are out of range or if the VI could not initialize the serial port.



VISA Configure Serial Port (Instr).vi

C:\Program Files\National Instruments\LabVIEW 2025\vi.lib\Instr_visa.lib\VISA Configure Serial Port (Instr).vi



Open Serial Driver.vi

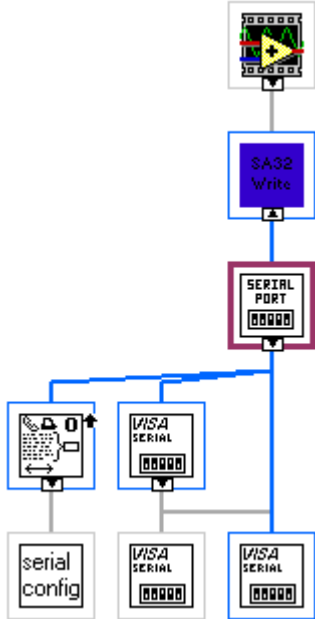
C:\Program Files\National Instruments\LabVIEW 2025\vi.lib\Instr_sersup.lib\Open Serial Driver.vi



VISA Configure Serial Port
C:\Program Files\National Instruments\LabVIEW 2025\vi.lib\Instr_visa.lib\VISA Configure
Serial Port

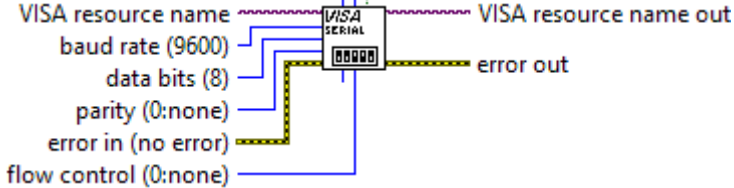
"Serial Port Init.vi History"
Current Revision: 47
rev. 6 lun. 24 févr. 1997 18:01:30 steve
The baud rate parameter has been changed to UInt32 for fast ports. This may still be restricted on some platforms by lower level limitations.

Position in Hierarchy



Iconified Cluster Constants

VISA Configure Serial Port
<p>Initializes the serial port specified by VISA resource name to the specified settings. Wire data to the VISA resource name input to determine the polymorphic instance to use or manually select the instance.</p>



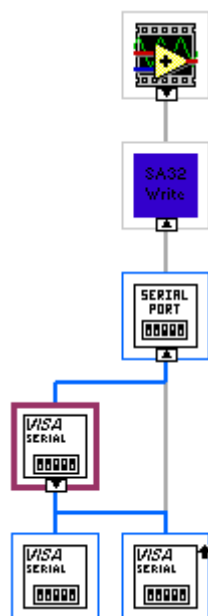
VISA Configure Serial Port (Instr).vi
C:\Program Files\National Instruments\LabVIEW 2025\vi.lib\Instr_visa.lib\VISA Configure
Serial Port (Instr).vi



VISA Configure Serial Port (Serial Instr).vi
C:\Program Files\National Instruments\LabVIEW 2025\vi.lib\Instr_visa.lib\VISA Configure
Serial Port (Serial Instr).vi

"VISA Configure Serial Port History"
Current Revision: 23

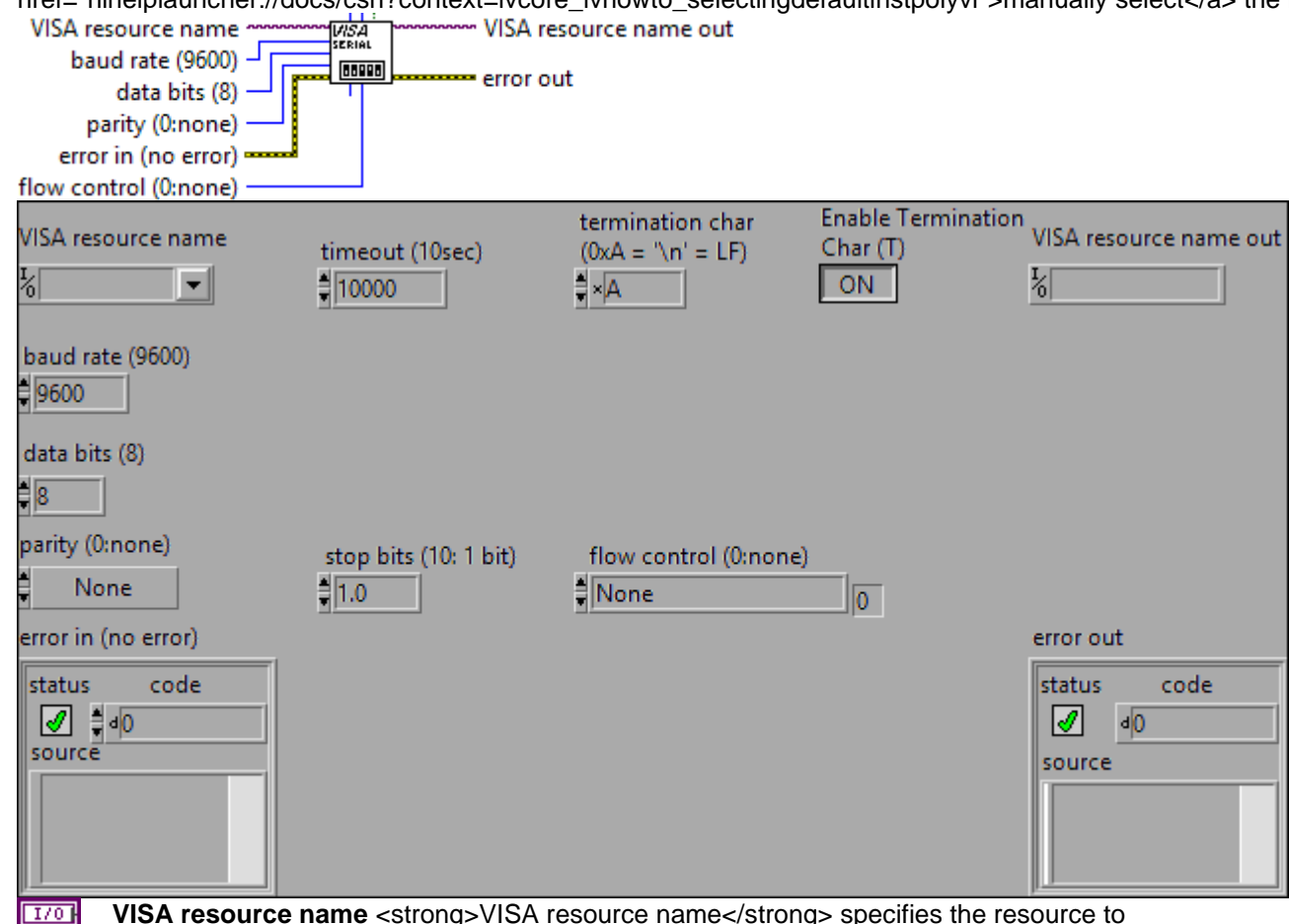
Position in Hierarchy



Iconified Cluster Constants

VISA Configure Serial Port (Serial Instr).vi

Initializes the serial port specified by **VISA resource name** to the specified settings. Wire data to the **VISA resource name** input to determine the polymorphic instance to use or [manually select](http://nihelp.launcher://docs/csh?context=lvcore_lvhowto_selectingdefaultinstpolyvi) the instance.



VISA resource name **VISA resource name** specifies the resource to be opened. The [VISA resource name](http://nihelp.launcher://docs/csh?context=lvcore_lvinstio_visa_resource_name_generic) control also specifies the session and class.

- U32

timeout (10sec) timeout specifies the time, in milliseconds, for the write and read operations.
- U32

baud rate (9600) baud rate is the rate of transmission.
- U16

data bits (8) data bits is the number of bits in the incoming data.
- ↔

parity (0:none) parity specifies the parity used for every frame to be transmitted or received.
- U8

termination char (0xA = '\n' = LF) termination char calls for termination of the read operation. The read operation terminates when the termination char is read from the serial device.
- Err

error in (no error) error in describes error conditions that occur before this node runs. This input provides standard error in functionality.
- TF

status status is TRUE (X) if an error occurred before this node ran or FALSE (checkmark) to indicate a warning or that no error occurred before this node ran. The default is FALSE.
- I32

code code is the error or warning code. The default is 0.
- abc

source source specifies the origin of the error or warning and is, in most cases, the name of the node that produced the error or warning. The default is an empty string.
- U16

stop bits (10: 1 bit) stop bits specifies the number of stop bits used to indicate the end of a frame.
- TF

Enable Termination Char (T) Enable Termination Char prepares the serial device to recognize termination char.
- U16

flow control (0:none) flow control sets the type of control used by the transfer mechanism.
- Err

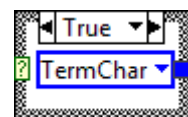
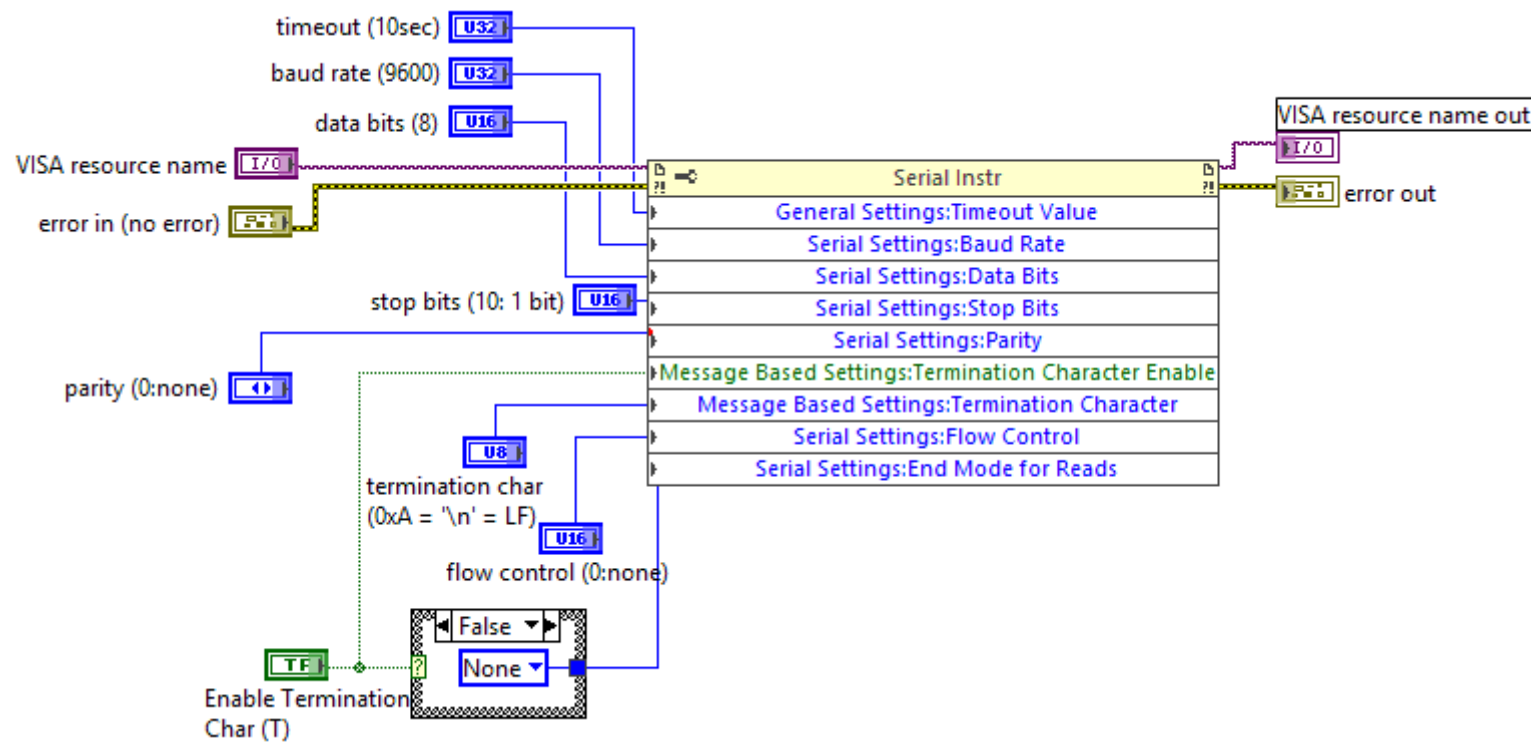
error out error out contains error information. This output provides standard error out functionality.
- TF

status status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.
- I32

code code is the error or warning code.
- abc

source source describes the origin of the error or warning and is, in most cases, the name of the node that produced the error or warning.
- I/O

VISA resource name out VISA resource name out is a copy of the VISA resource name that VISA functions return.



"VISA Configure Serial Port (Serial Instr).vi History"

Current Revision: 115

Position in Hierarchy



Iconified Cluster Constants

Bytes At Serial Port.vi

Returns the number of bytes in the input buffer of the serial port indicated in **port number**.

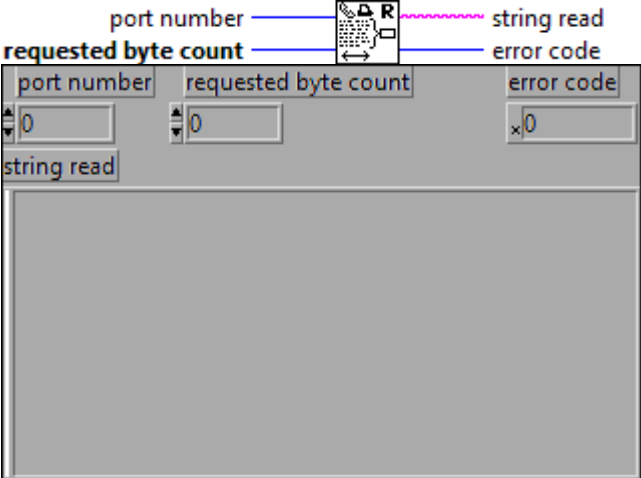




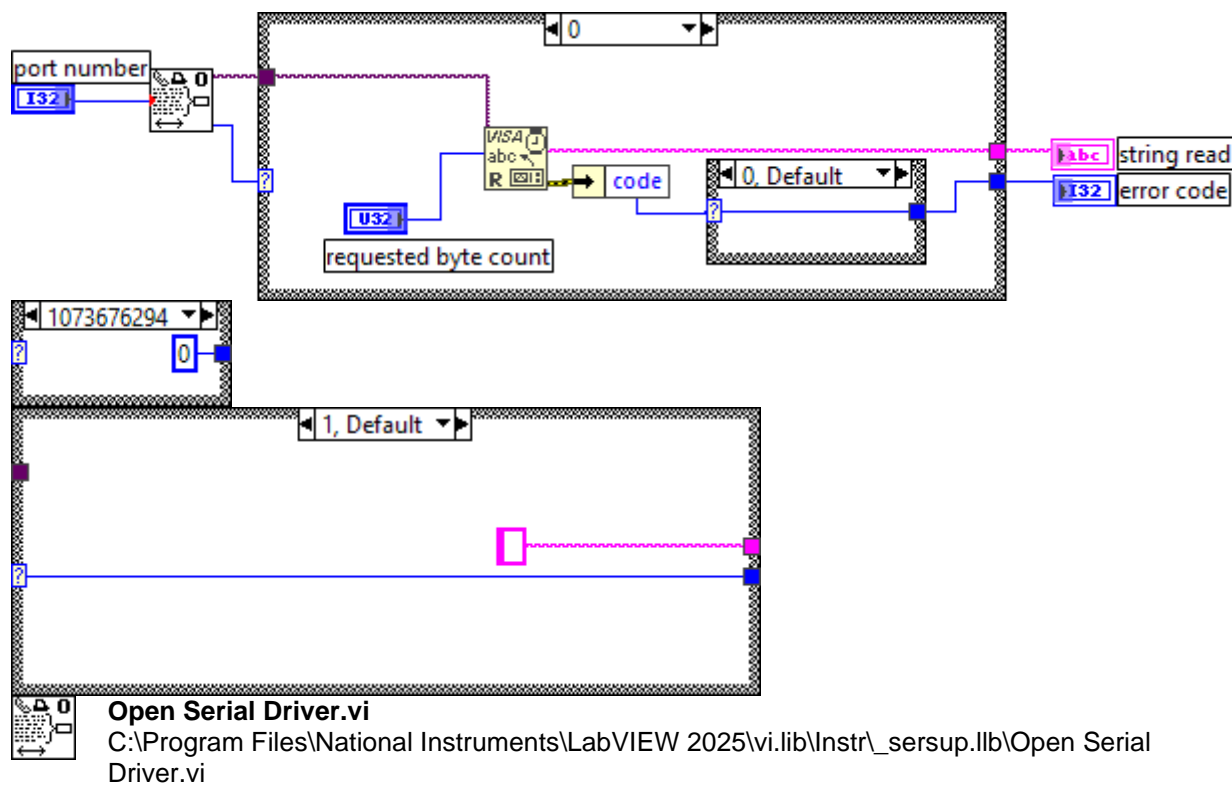
Iconified Cluster Constants

Serial Port Read.vi

Reads the number of characters specified by **requested byte count** from the serial port indicated in **port number**.



- I32** **port number** **port number** is the serial port.
- U32** **requested byte count** **requested byte count** specifies the number of characters to read.
- abc** **string read** **string read** is the bytes read from the serial port.
- I32** **error code** **error code** is the error or warning code. If **error code** is nonzero, an error occurred. You can wire **error code** to one of the error handler VIs, which describe the error and give you options on how to proceed when an error occurs.



"Serial Port Read.vi History"
 Current Revision: 24

Position in Hierarchy

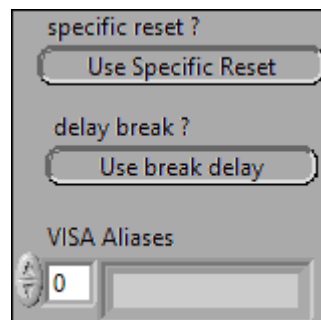


Iconified Cluster Constants

serpConfig.vi

This VI was removed from the Functions palette. Use the VIs and functions on the VISA palette to control serial devices. If you use the LabVIEW PDA Module, use this VI for serial communication.

serial
config



specific reset ?

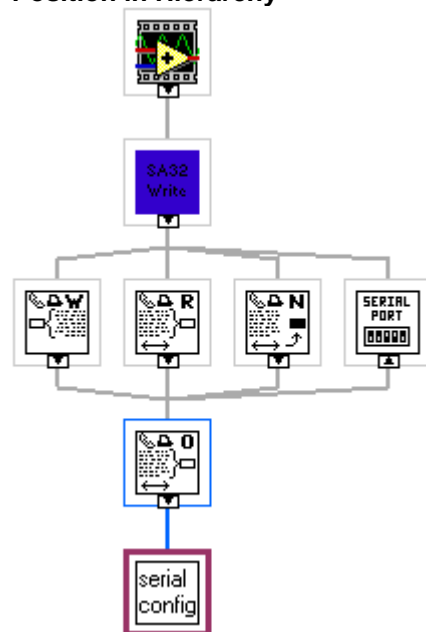
delay break ?

VISA Aliases

String

"serpConfig.vi History"
Current Revision: 5

Position in Hierarchy



Iconified Cluster Constants