/\*=========================================================================

| GENERAL API

========================================================================\*/

/\*

\* Get a list of ports to which Aardvark devices are attached.

\*

\* nelem = maximum number of elements to return

\* devices = array into which the port numbers are returned

\*

\* Each element of the array is written with the port number.

\* Devices that are in-use are ORed with AA\_PORT\_NOT\_FREE (0x8000).

\*

\* ex. devices are attached to ports 0, 1, 2

\* ports 0 and 2 are available, and port 1 is in-use.

\* array => 0x0000, 0x8001, 0x0002

\*

\* If the array is NULL, it is not filled with any values.

\* If there are more devices than the array size, only the

\* first nmemb port numbers will be written into the array.

\*

\* Returns the number of devices found, regardless of the

\* array size.

\*/

#define AA\_PORT\_NOT\_FREE 0x8000

int aa\_find\_devices (

int num\_devices,

u16 \* devices

);

/\*

\* Get a list of ports to which Aardvark devices are attached.

\*

\* This function is the same as aa\_find\_devices() except that

\* it returns the unique IDs of each Aardvark device. The IDs

\* are guaranteed to be non-zero if valid.

\*

\* The IDs are the unsigned integer representation of the 10-digit

\* serial numbers.

\*/

int aa\_find\_devices\_ext (

int num\_devices,

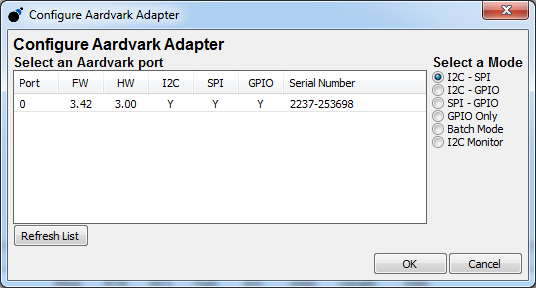
u16 \* devices,

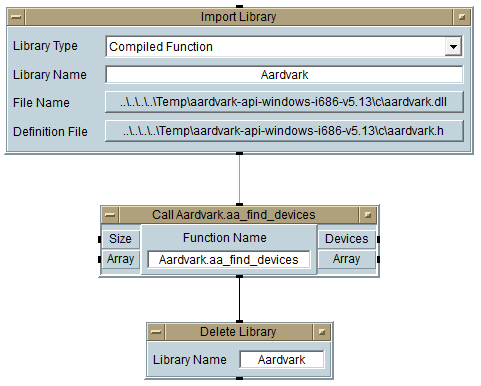
int num\_ids,

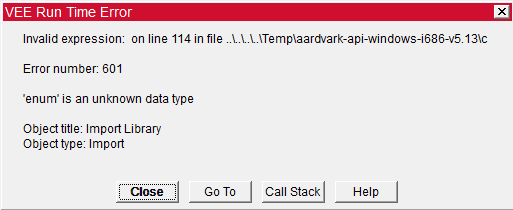
u32 \* unique\_ids

);

Aardvark GUI Configuration Screen







**Line 114:**

enum AardvarkStatus {

/\* General codes (0 to -99) \*/

AA\_OK = 0,

AA\_UNABLE\_TO\_LOAD\_LIBRARY = -1,

AA\_UNABLE\_TO\_LOAD\_DRIVER = -2,

AA\_UNABLE\_TO\_LOAD\_FUNCTION = -3,

AA\_INCOMPATIBLE\_LIBRARY = -4,

AA\_INCOMPATIBLE\_DEVICE = -5,

AA\_COMMUNICATION\_ERROR = -6,

AA\_UNABLE\_TO\_OPEN = -7,

AA\_UNABLE\_TO\_CLOSE = -8,

AA\_INVALID\_HANDLE = -9,

AA\_CONFIG\_ERROR = -10,

<aardvark>

<configure i2c="1" spi="1" gpio="0" tpower="1" pullups="0"/>

<spi\_bitrate khz="250"/>

<spi\_write count="5" radix="16">02 C0 00 00 00</spi\_write>

<!--LOCKED(0), LOOP\_POLARITY(1),2=Pos, 0=Neg -->

<sleep ms="100"/>

<spi\_write count="5" radix="16">03 00 00 00 00</spi\_write>

<!--OFFSET(0), PD\_PLL(1), PFD\_PLLn(2),0=PFD/Offset, 6=PD/Offset -->

<sleep ms="100"/>

<spi\_write count="5" radix="16">03 40 00 00 00</spi\_write>

<!--PLL\_SHORTn(0), LLF\_SHORTn(1), 0=loop locked? -->

<sleep ms="100"/>

</aardvark>