

iRite IDE Webinar



Webinar Overview



- Part 1 – Definitions and Overview of IDE
- Part 2 – Get Weight and Print Example
- Part 3 – Setpoints and Digital Outputs
- Part 4 – Data Storage and Print (Using a Procedure)
- Part 5 – Timers, Loops, Helpful Tips

Presenter:
Kristi Gay, Software Engineer



Part #1

Definitions and Overview of IDE

What is an Event? Handler?



- An **event** is anything that happens with the indicator:
 - Key pressed
 - Timer trip (time expired)
 - Setpoint trip (exceed a certain weight)
- **Handlers** are sections of code that happen JUST FOR THAT EVENT

What is a Procedure?



- A **procedure** is another group of functions with a name that you reference.
 - Procedures don't happen on their own.
 - They are called from a handler.
 - The benefit is if you do the same thing in different event handlers, you call a procedure.

Types of Data: Integer, Real, String



- **Integer** = a number without any decimal places. (Used for Ticket #s, counters, etc.)
- **Real** = a number with decimals (or the possibility of decimals). ALWAYS USED WITH WEIGHTS.
- **String** = alphanumeric text. All data displayed on the screen or printed HAS to be strings.

What is an array?

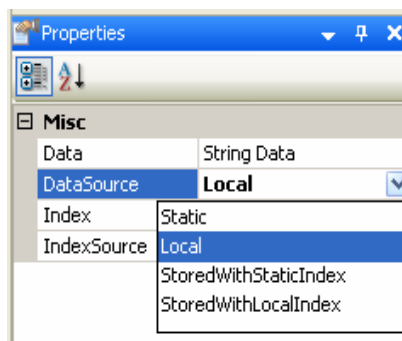


- **Array** = "list" of the same type of data.
- There is an **Integer Array**, **Real Array**, and **String array**, all with 1000 spots for data storage.
- This is permanent storage, unlike the local variables.

Datasource Properties



- **Datasource** is defining WHERE the data is coming from that you are using for the function.



Datasource Properties, cont.



- **Static** = always the same, and it is what you type in the “Data” property
- **Local** = whatever is stored in the local variable (this is the default location for all “answers” to functions, like the “Get Scale Value” function).

Datasource Properties, cont



- `StoredWithStaticIndex` =
 - “Stored” means you’re referencing one of the arrays (data storage).
 - “Index” is which number (1-1000) you want to reference from the list.
 - “Static” means it’s always the same and it’s the number you type in the “Data” property (1-1000).
 - So this means you want to reference an exact location in the array.

Datasource Properties, cont



- `StoredWithLocalIndex` =
 - “Stored” means you’re referencing one of the arrays (data storage).
 - “Index” is which number (1-1000) you want to reference from the list.
 - “Local” means the index number (1-1000) is currently stored in the Local variable.
 - There would have to be a number stored to that local variable that is 1-1000, and that number is which spot in the array you would reference.



Part #2

Get Weight and Print Example

Get Weight and Print Example



- Get Scale Value
- Write Serial
- Execute Print Format
- Compile and Download to 820i/920i
- Project Properties

Part #3

Setpoints and Digital Outputs



Setpoints and Digital Outputs



- Set Setpoint Value
- Set Digital Output State
- In Motion
- Write Serial

Part #4

Data Storage and Print (using a procedure)



Presenter:
Kristi Gay, Software Engineer

Data Storage and Print



- Prompt User for String
- Prompt User for Integer
- Write String
- Integer to String
- Write Serial

Part #5

Timers, Loops, Helpful Tips



Presenter:
Kristi Gay, Software Engineer

Timers, Loops, Helpful Tips



- Set Timer, Set Timer Mode, Start Timer
- Loops and their purpose
- Helpful Tips (insert, copy/paste, default windows)

This concludes iRite™ IDE Fundamentals

Feel free to contact *Kristi Gay* with any
follow-up questions.

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Kristi Gay, Software Engineer



Thank you for Attending!

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