

Connected Components Workbench Task-based Quick Start

QS# GS08- Testing a Running Program



Hardware & Software Versions Used to Develop This Quick Start

- Micro830. 2080-LC16QWB, FRN 0.40
- Standard USB A/B cable (3 meter maximum)
- RSlinx Classic version 2.55
- Windows XP, Service Pack 3

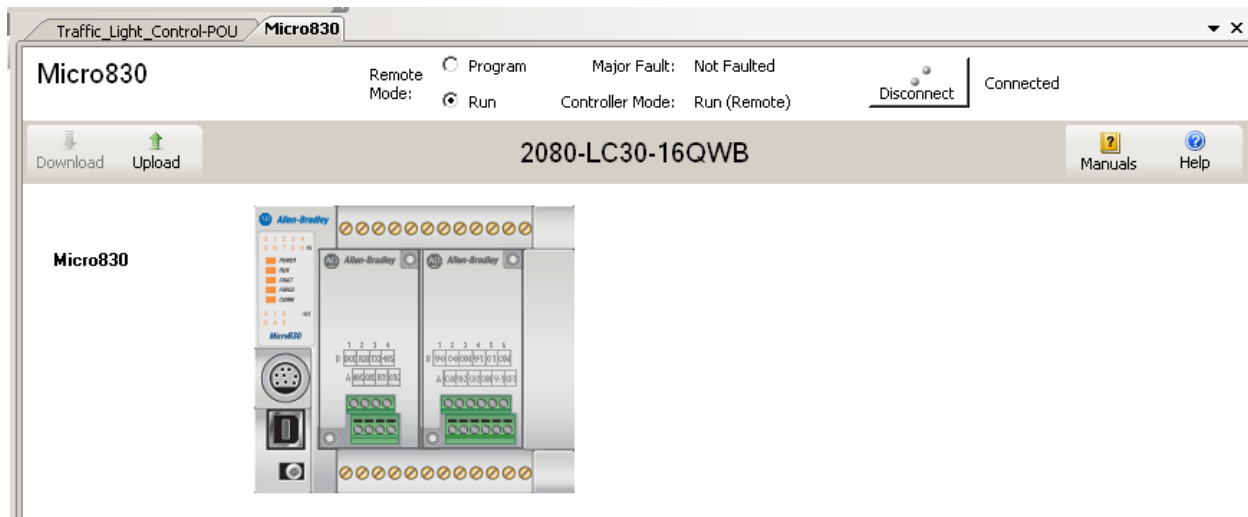
Prerequisite

- QS-GS07 or other running program.

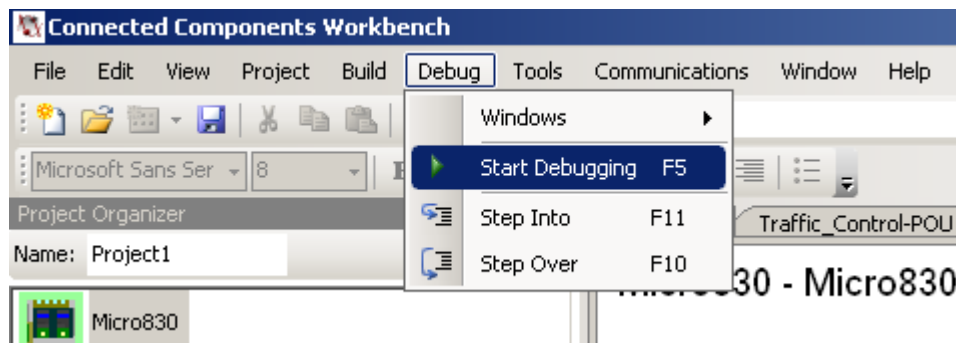
Testing a Running Program

This quick start will show you how to debug and force a command in a running program.

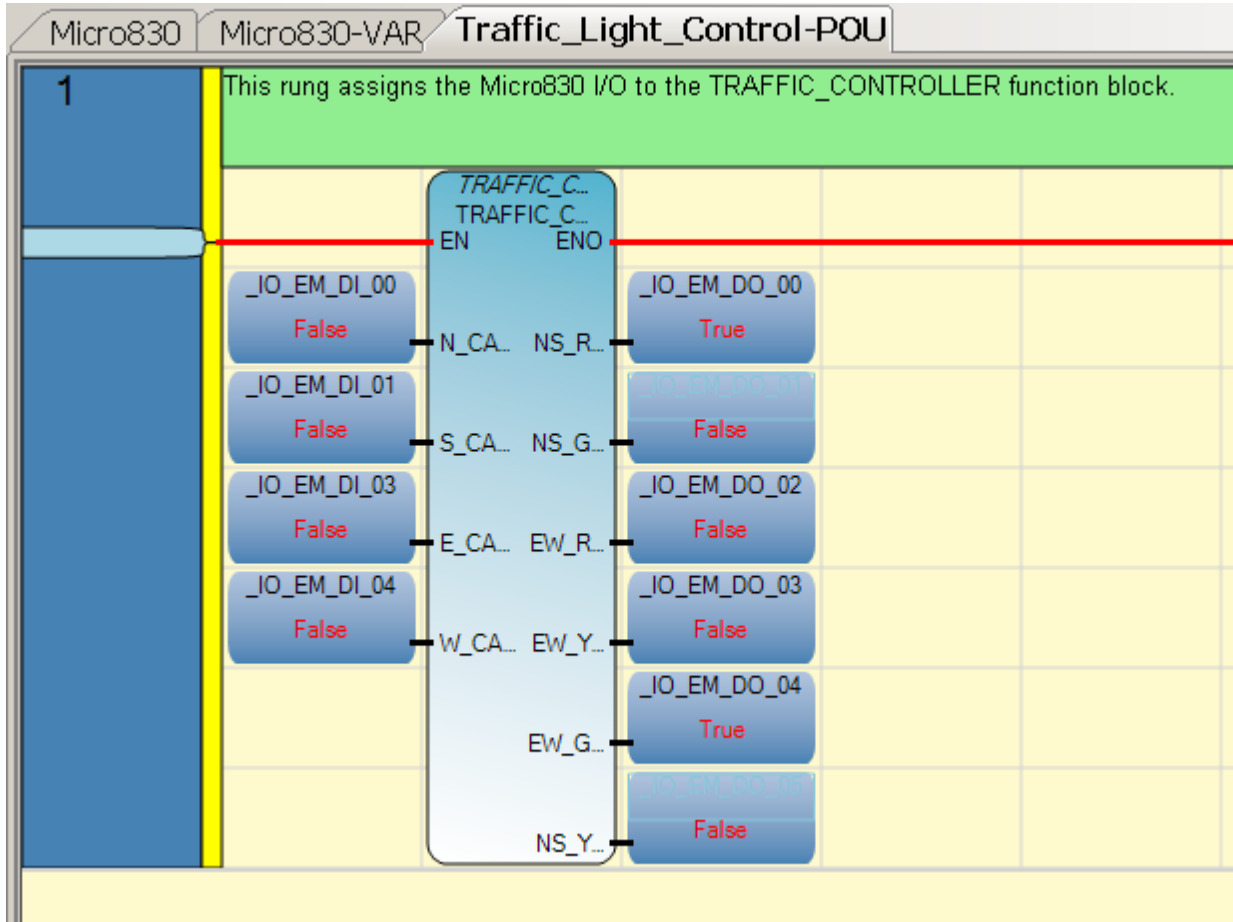
1. This quick start assumes you have a running program. For details on how to create, build, and download a program, refer to quick starts GS01 – GS07.
2. Verify you are in Run mode. If you are not in Run mode, you must select the Run radio button.



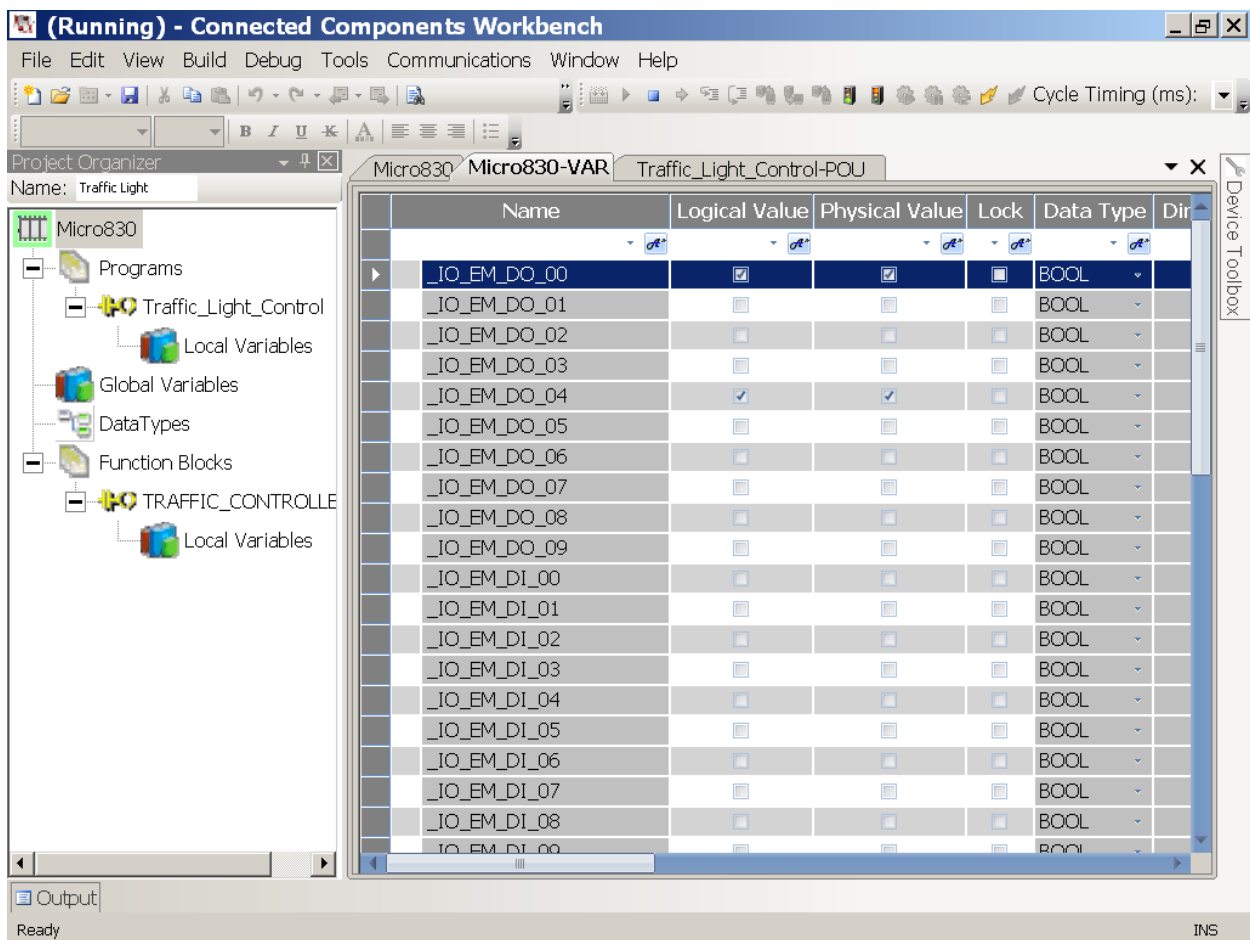
3. Select Start Debugging from the Debug menu.



4. The following screen will then appear under the Traffic_Control_POU tab.




5. To Force the value of a variable, left mouse click on global variables.



6. Left mouse click on variable you desire to force. For this quick start, we are illustrating forcing _IO_EM_DI_00.
7. Click on the Lock box for the _IO_EM_DI_00.

Micro830		Micro830-VAR		Traffic_Light_Control-POU	
Name	Logical Value	Physical Value	Lock	Data Type	
_IO_EM_DO_05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DO_06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DO_07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DO_08	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DO_09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DI_00	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BOOL	
_IO_EM_DI_01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	

8. Click on Logical Value on the _IO_EM_DI_00.

Micro830		Micro830-VAR		Traffic_Light_Control-POU	
Name	Logical Value	Physical Value	Lock	Data Type	
_IO_EM_DO_05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DO_06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DO_07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DO_08	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
_IO_EM_DO_09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	
 _IO_EM_DI_00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BOOL	
_IO_EM_DI_01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BOOL	

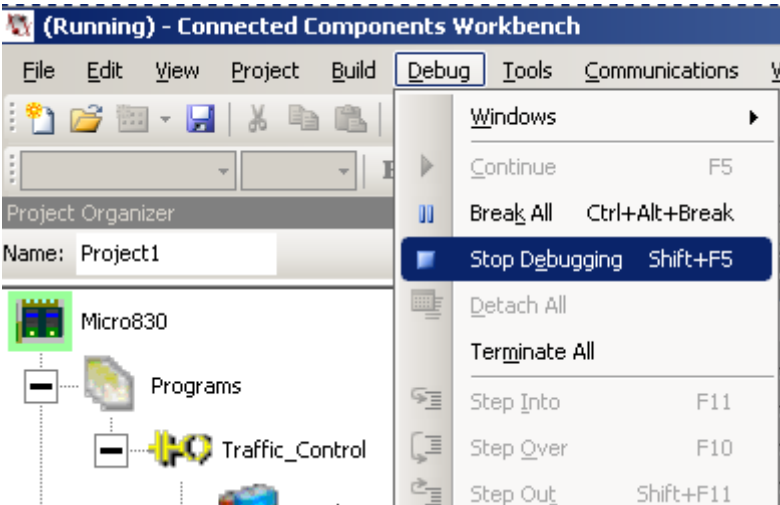
9. You should now see the output LEDs on the Micro830 changing state (if using the same program).

You will also see the outputs change state by the under the Logical Value column and the Physical Value column under the global variable tab.

Micro830		Micro830-VAR	Traffic_Light_Control-POU		
	Name	Logical Value	Physical Value	Lock	Da
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_01	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_02	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_03	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_04	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_08	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BO
	_IO_EM_DO_09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BO
▶	_IO_EM_DI_00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BO
	_IO_EM_DI_01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BO

10. To stop forcing the value, click on the Logical Value. To allow the program or external sources to change the value, click on Lock to uncheck the Lock box.

11. To stop debugging, click Debug in the toolbar and select Stop Debugging.



12. You can now leave the Micro830 in remote run mode, can select program mode, or disconnect from the Micro830 by opening the Micro830 tab and selecting the radio dial for your preference.

