Classification	ISaGRAF FAQ-						
Author	Spike Huang	Version	1.0.0	Date	Oct. 2008	Page	1/3

Application: Link Serial COM Port to the Modbus RTU device by COM functions

Download FAQ-098 Demo

When the Modbus function blocks provided by ICP DAS are unable to read / write some special Modbus devices, please refer to the FAQ-098 demo. User can define the Modbus command depend on the device to link the Modbus RTU device.

User can apply the code listed below or rewrite the similar code to accomplish it.

- ISaGRAF - DEMO98 - Programs	
<u>File Make Project Tools Debug Options Help</u>	
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Begin: 💌 init 1st PLC scan cycle	
Sequential: Modbus process Modbus command	
Functions: modbus_c Modbus Request Command	
📂 modbus_r Modbus Response	
Begin: init_ (Structured Text)	
Version for ICP-DAS i-7188/i-8000/IView/Wincon series controllers only	

"modbus_c" and "modbus_r" in this demo are used for processing the Modbus request command and the Modbus response. If user has no special demand, do not need to revise them. User must define the variables for these two function blocks as the figure.

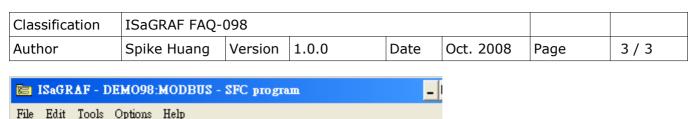
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Booleans Integers/Reals Tim	Booleans Integers/Reals Timers Messages FB instances Defined words					
Name	Attrib.	Addr.	Comment			
			//Below variables For Modbus_c function			
nbb C	[internal,integer]	0000				
index nbi	[internal,integer]	0000				
index nbi 2	[internal,integer]	0000				
B00 V	[internal,integer]	0000				
			//Below variables For Modbus_r function			
index_nbi_tmp	[internal,integer]	0000				
index	[internal,integer]	0000				
B00_byte	[internal,integer]	0000				
nbb R	[internal,integer]	0000				
index nbb	[internal,integer]	0000				
Version for ICP-DAS i-7188/i-80	00/iView/Wincor	n series co	ontrollers only			

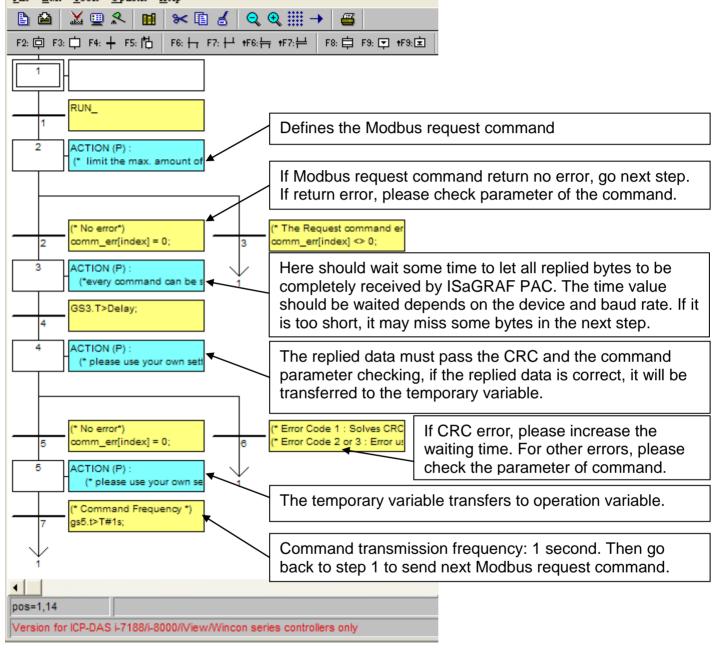
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🏷 ISaGRAF - DEM	MO98 - Global function blocks	- 🗆 X				
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Booleans Integers/Reals Timers Messages FB instances Defined words						
Name	Value Comment					
CRC16_1	crc_16	-				
Version for ICP-DAS i-7188/i-8000/IView/Wincon series controllers only						

The main procedure of this example:

- A. Define the Modbus request command according to the Modbus device in Modbus program.
- B. Send a Modbus Command to device via COM2.
- C. Waiting for Modbus device to reply the related answer
- D. Delay 1 second, then send next Modbus Command to devices ...





Please refer to the "Modbus" program for more detail descriptions.