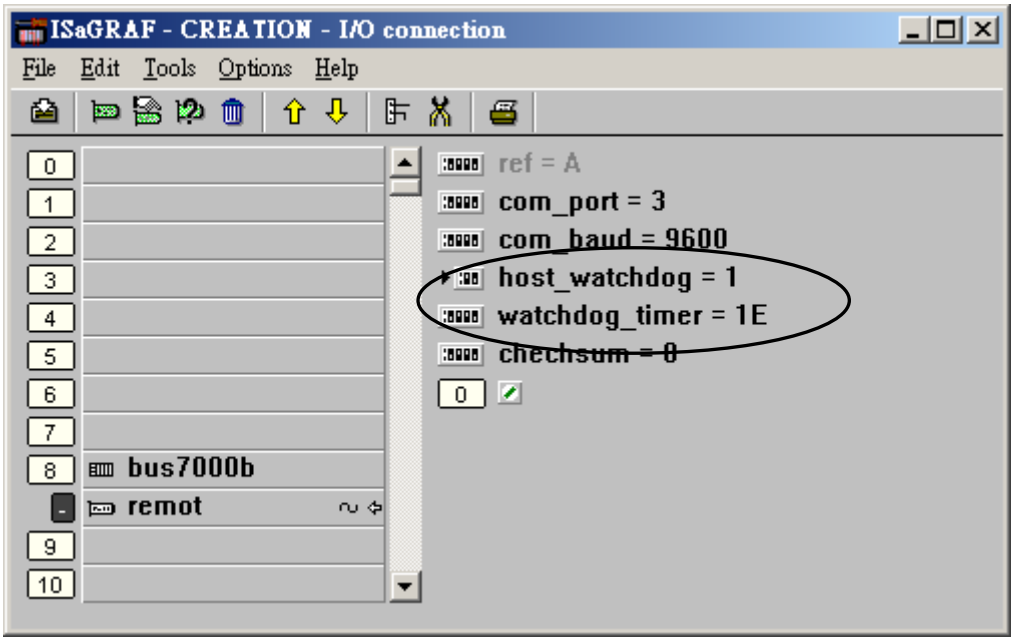
Why my RS-485 remote I-7000 and I-87K Output module's host watchdog function doesn't work to reset its output channels to safe output value while the RS-485 communication cable is broken ?

If you are using ISaGRAF PAC – 7188EG, 7188XG, I-8xx7, I-8437-80 or I-8837-80 to connect RS-485 remote I-7000 and I-87K I/O modules, please set the "host_watchdog" parameter to 1 to enable the **I-7000 and I-87K I/O modules's** host_watchdog function**.**

The "**watchdog_timer**" paramter is for setting the timeout time if enable the host watchdog function. Its value is in hexadecimal, unit is 0.1 second. For example, **setting as 1E means the timeout value is 3 seconds. If the RS-485 broken longer than 3 seconds, the I-7000 and I-87K I/O modules's output channels will be reset to safe output value.**



Very Important:

Please wire an terminal resistor about 110 to 330 ohms at I-7188EG/XG or I-8xx7 PAC's RS-485 port, between the D+ and D- pin (or between the RS485+ and RS485-).

This will ensure the host watchdog of I-7000 and I-87K output modules to work correctly when the communication between the controller and the I-7000/I-87K output modules is broken. (You can try 110 ohms first, then try 220 ohms, then others)

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For example, if you don't wire any terminal resistor and enable the host watchdog function at "bus7000b" (Section 6.2 of ISaGRAF user manual, the "host_watchdog" parameter set as 1), when you just un-plug the I-7000's "DATA+" pin (keep "Data-" pin connected to the PAC), you will see the watchdog doesn't work in this I-7000.

If you wire a resistor about 110 ohms between the PAC's RS-485 D+ and D- pin, if you un-plug anyone of I-7000's "Data+" or "Data-" pin, the watchdog will work correctly.

Click the link for more ISaGRAF FAQ:
http://www.icpdas.com/en/faq/index.php?kind=280#751

Visit the ISaGRAF website for more information about new PACs.
https://www.icpdas.com/en/product/guide+Software+Development__Tools+ISaGRAF

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