Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 257 Instruction Words Used - 61 Data Table Words Used

Total Memory Left: 6399 Instruction Words Left

Program Files: 3

Data Files: 10

Program ID: 781f

I/O Configuration

0	Bul.1763	MicroLogix 1100 Series B
1		
2		
3		
4		

CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master
   CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Edit Resource/Owner Timeout: 60
   CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Passthru Link ID: 1
   CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Write Protected: No
   CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Comms Servicing Selection: Yes
   CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Message Servicing Selection: Yes
   CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master 1st AWA Append Character: \d
   CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master 2nd AWA Append Character: \a

   Baud: 9600
   Parity: NONE
   Control Line : No Handshaking
   InterCharacter Timeout(x1 ms): 0
   Pre Transmit Delay(x1 ms): 0

CHANNEL 1 (SYSTEM) - Driver: Ethernet
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Edit Resource/Owner Timeout: 60
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Passthru Link ID: 1
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Write Protected: No
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Comms Servicing Selection: Yes
   CHANNEL 1 (SYSTEM) - Driver: Ethernet Message Servicing Selection: Yes

   Hardware Address: 00:0F:73:01:72:04
   IP Address: 192.168.1.112
   Subnet Mask: 255.255.255.0
   Gateway Address: 192.168.1.1
   Msg Connection Timeout (x 1mS): 15000
   Msg Reply Timeout (x mS): 3000
   Inactivity Timeout (x Min): 30
   Bootp Enable: No
   Dhcp Enable No
   SNMP Enable: No
   HTTP Enable: Yes
   Auto Negotiate Enable: Yes
   Port Speed Enable: 10/100 Mbps Full Duplex/Half Duplex
   Contact:
   Location:

Cf. https://www.plctalk.net/qanda/showthread.php?t=132311

Rungs to allow external Ethernet/IP-CIP client adjust Real-Time Clock (RTC)

Requires 13-element N-buffer, Nxxx (16-bit integers)
- Nxxx:0 to Nxxx:5: written to by E/IP client; then used by next rung below to update RTC
- Nxxx:6 - Nxxx:11: written to by next rung after that, from RTC, then read by E/IP client
- Nxxx:12/0: bit to disable RTC update when value is 1
- Nxxx:12/1: bit to trigger transfer of RTC data to Nxxx:6 - Nxxx:11

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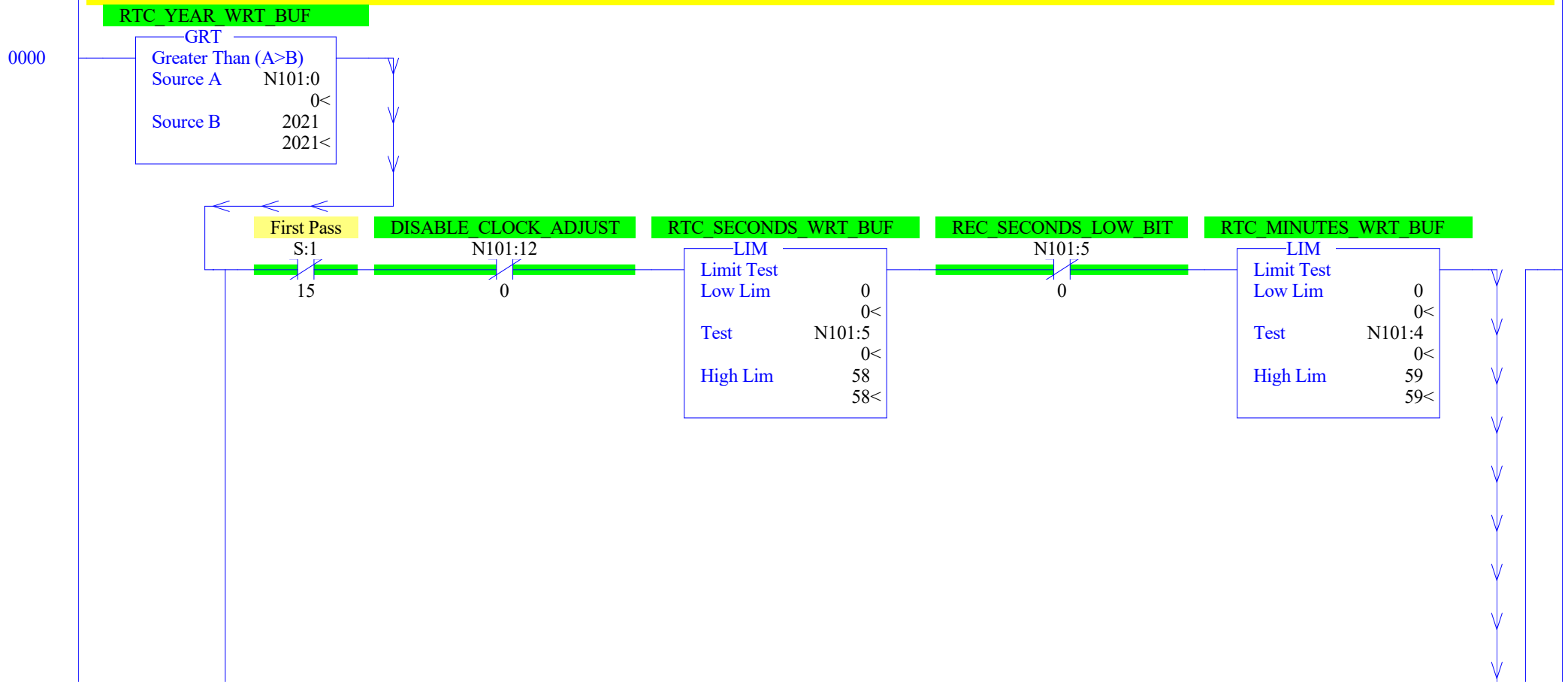
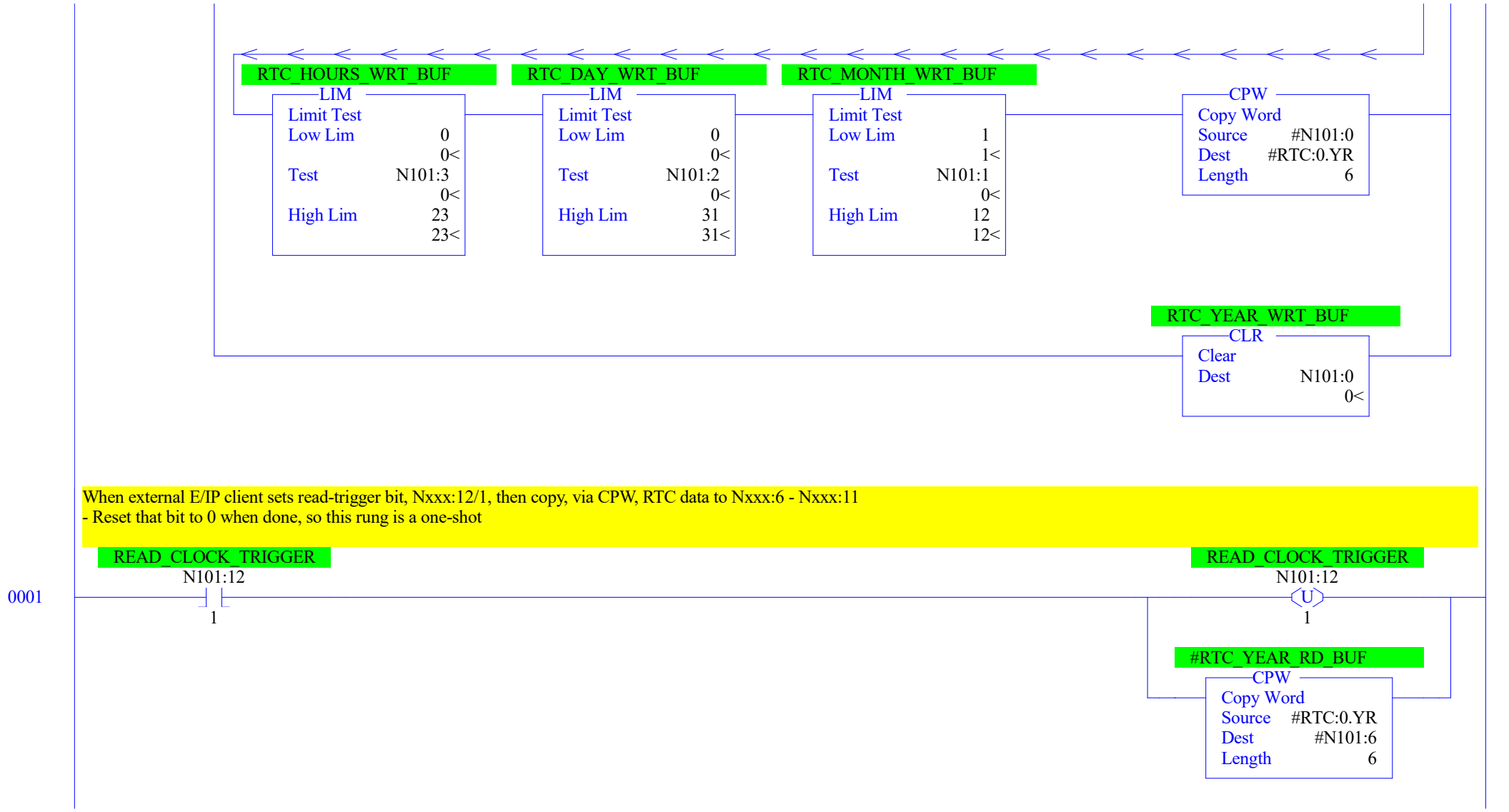
Next rung updates the RTC from buffer Nxxx:0 - Nxxx:5 when ALL of the the following conditions are True:
- Buffered year is greater than 2021
- This is not the First Pass scan
- The clock adjustment is not disabled (Nxxx:12/0)
- Buffered values are in valid ranges; also
  - Value of seconds is even
  - Value of day range is 1-31; no per-month or leap-year checks

Next rung also assigns value of 0 to buffered year if it was greater than 2022,
- this happens even if update to RTC does not execute, so this rung is a one-shot





When external E/IP client sets read-trigger bit, Nxxx:12/1, then copy, via CPW, RTC data to Nxxx:6 - Nxxx:11
- Reset that bit to 0 when done, so this rung is a one-shot

0001

Fingerprint in elements Nxxx:13 through Nxxx:17
- Nxxx:13: 'CLOK' => 3FCBh = 0x3FCB
- Nxxx:14 - Nxxx:17: four octets of IP address

0002

MOV
Move
Source 15611
15611<
Dest N101:13
0<

MOV
Move
Source 192
192<
Dest N101:14
0<

MOV
Move
Source 168
168<
Dest N101:15
0<

MOV
Move
Source 1
1<
Dest N101:16
0<

MOV
Move
Source 112
112<
Dest N101:17
0<

0003

END

Data File O0 (bin) -- OUTPUT

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
O:0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
O:0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
O:0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
O:0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B

Data File I1 (bin) -- INPUT

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
I:0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
I:0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
I:0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
I:0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
I:0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	Bul.1763	MicroLogix 1100 Series B-Analog Inp 0
I:0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	Bul.1763	MicroLogix 1100 Series B-Analog Inp 1

Main

Processor Mode S:1/0 - S:1/4 = Remote Run
On Power up Go To Run (Mode Behavior) S:1/12 = 0
First Pass S:1/15 = No
Free Running Clock S:4 = 1010-1111-0011-0011

Proc

OS Catalog Number S:57 = 1100 User Program Type S:63 = 8108h
OS Series S:58 = B Compiler Revision Number S:64 =
OS FRS S:59 =
Processor Catalog Number S:60 =
Processor Series S:61 = A
Processor FRN S:62 =

Scan Times

Maximum (x10 ms) S:22 = 30
Watchdog (x10 ms) S:3 (high byte) = 10
Last 100 uSec Scan Time S:35 = 15
Scan Toggle Bit S:33/9 = 1

Math

Math Overflow Selected S:2/14 = 1 Math Register (lo word) S:13 = 49
Overflow Trap S:5/0 = 0 Math Register (high word) S:14-S:13 = 280
Carry S:0/0 = 0 Math Register (32 Bit) S:14-S:13 = 18350129
Overflow S:0/1 = 0
Zero Bit S:0/2 = 0
Sign Bit S:0/3 = 0

Chan 0

Processor Mode S:1/0- S:1/4 = Remote Run
Node Address S:15 (low byte) = 0 Outgoing Msg Cmd Pending S:33/2 = 0
Baud Rate S:15 (high byte) = ?
Channel Mode S:33/3 = 0
Comms Active S:33/4 = 0
Incoming Cmd Pending S:33/0 = 0
Msg Reply Pending S:33/1 = 0

Debug

Suspend Code S:7 = 0
Suspend File S:8 = 0

Debug

Suspend Code S:7 = 0
Suspend File S:8 = 0

Errors

Fault Override At Power Up S:1/8 = 0
Startup Protection Fault S:1/9 = 0
Major Error Halt S:1/13 = 0
Overflow Trap S:5/0 = 0
Control Register Error S:5/2 = 0
Major Error Executing User Fault Rtn. S:5/3 = 0
Battery Low S:5/11 = 0
Input Filter Selection Modified S:5/13 = 0
ASCII String Manipulation error S:5/15 = 0

Fault Routine S:29 = 0
Major Error S:6 = 0h
Error Description:

Protection

Deny Future Access S:1/14 = No
Data File Overwrite Protection Lost S:36/10 = True

Mem Module

Memory Module Loaded On Boot S:5/8 = 0
Password Mismatch S:5/9 = 0
Load Memory Module On Memory Error S:1/10 = 0
Load Memory Module Always S:1/11 = 0
On Power up Go To Run (Mode Behavior) S:1/12 = 0
Program Compare S:2/9 = 0
Data File Overwrite Protection Lost S:36/10 = 1

Forces

Forces Enabled S:1/5 = Yes
Forces Installed S:1/6 = No

Data File B3 (bin) -- BINARY

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol) Description
B3:0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Data File T4 -- TIMER

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol)	Description
T4:0	1	1	0	.001 sec	3000	1246		

Data File C5 -- COUNTER

Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol)	Description
C5:0	0	0	0	0	0	0	11	0		

Data File R6 -- CONTROL

Offset	EN	EU	DN	EM	ER	UL	IN	FD	LEN	POS	(Symbol)	Description
R6:0	0	0	0	1	0	0	0	0	0	0		

Data File N7 (dec) -- INTEGER

Offset	0	1	2	3	4	5	6	7	8	9
N7:0	0									

Data File F8 -- FLOAT

Offset	0	1	2	3	4
F8:0	0				

Data File N101 (dec) -- RTCBUFFERS

Offset	0	1	2	3	4	5	6	7	8	9
N101:0	0	0	0	0	0	0	0	0	0	0
N101:10	0	0	0	0	0	0	0	0		