RSLogix Micro Project Report

Processor Type: Bul.1763   MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 154 Instruction Words Used - 105 Data Table Words Used

Total Memory Left: 6502 Instruction Words Left

Program Files: 3

Data Files: 10

Program ID: a3a3

I/O Configuration

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

rev_pulse_monroe.RSS

I/O Configuration

Bul.1763   MicroLogix 1100 Series B

CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Edit Resource/Owner Timeout: 60
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Passthru Link ID: 1
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Write Protected: No
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Comms Servicing Selection: Yes
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Message Servicing Selection: Yes
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex 1st AWA Append Character: \d
   CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex 2nd AWA Append Character: \a

   Source ID: 1 (decimal)
   Baud: 19200
   Parity: NONE
   Control Line : No Handshaking
   Error Detection: CRC
   Embedded Responses: Auto Detect
   Duplicate Packet Detect: Yes
   ACK Timeout(x20 ms): 50
   NAK Retries: 3
   ENQ Retries: 3

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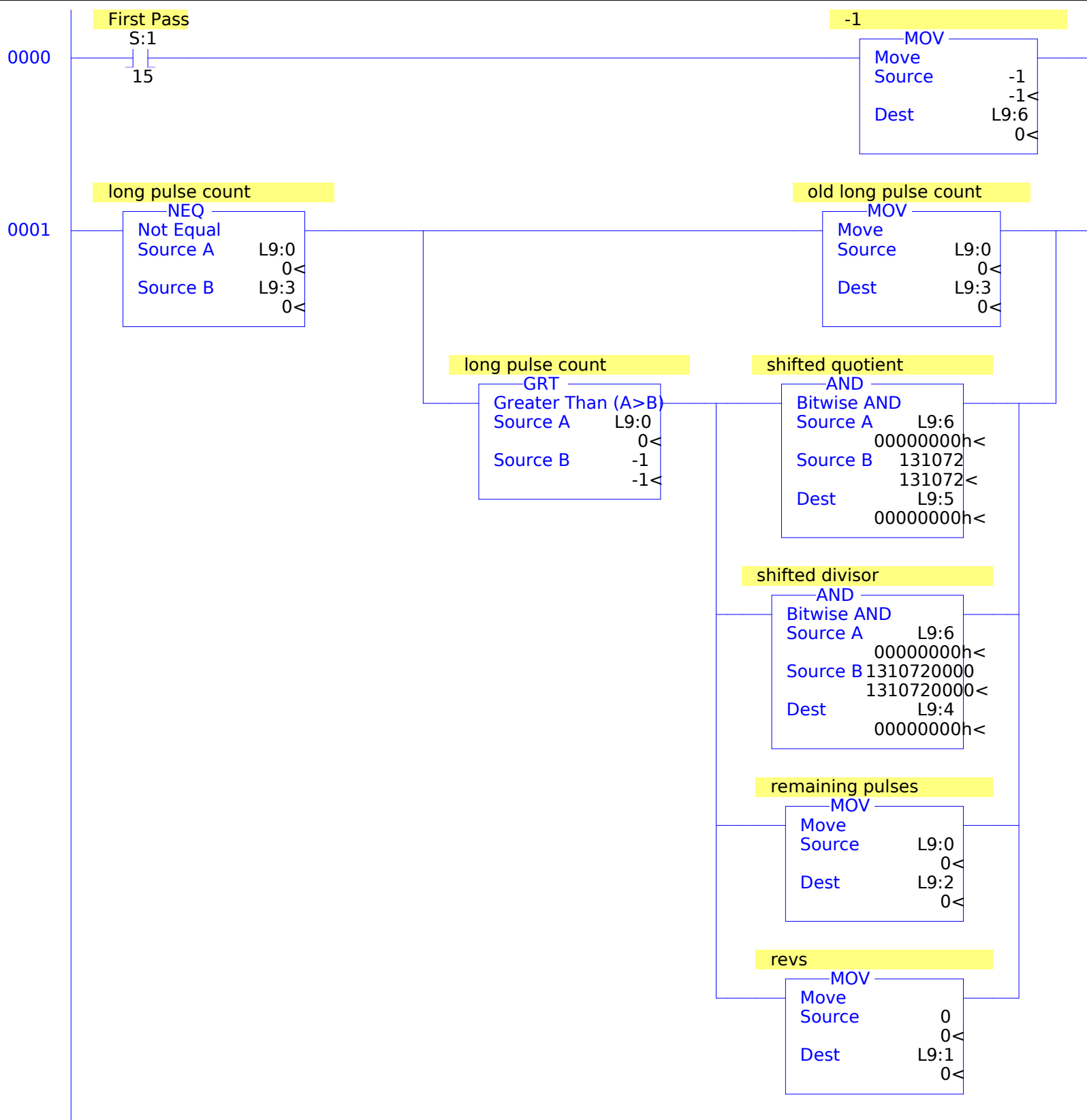
   Hardware Address: 00:00:00:00:00:00
   IP Address: 192.168.1.112
   Subnet Mask: 255.255.255.0
   Gateway Address: 192.168.1.1
   Msg Connection Timeout (x 1mS): 15000
   Msg Reply Timeout (x mS): 3000
   Inactivity Timeout (x Min): 30
   Bootp Enable: No
   Dhcp Enable Yes
   SNMP Enable: No
   HTTP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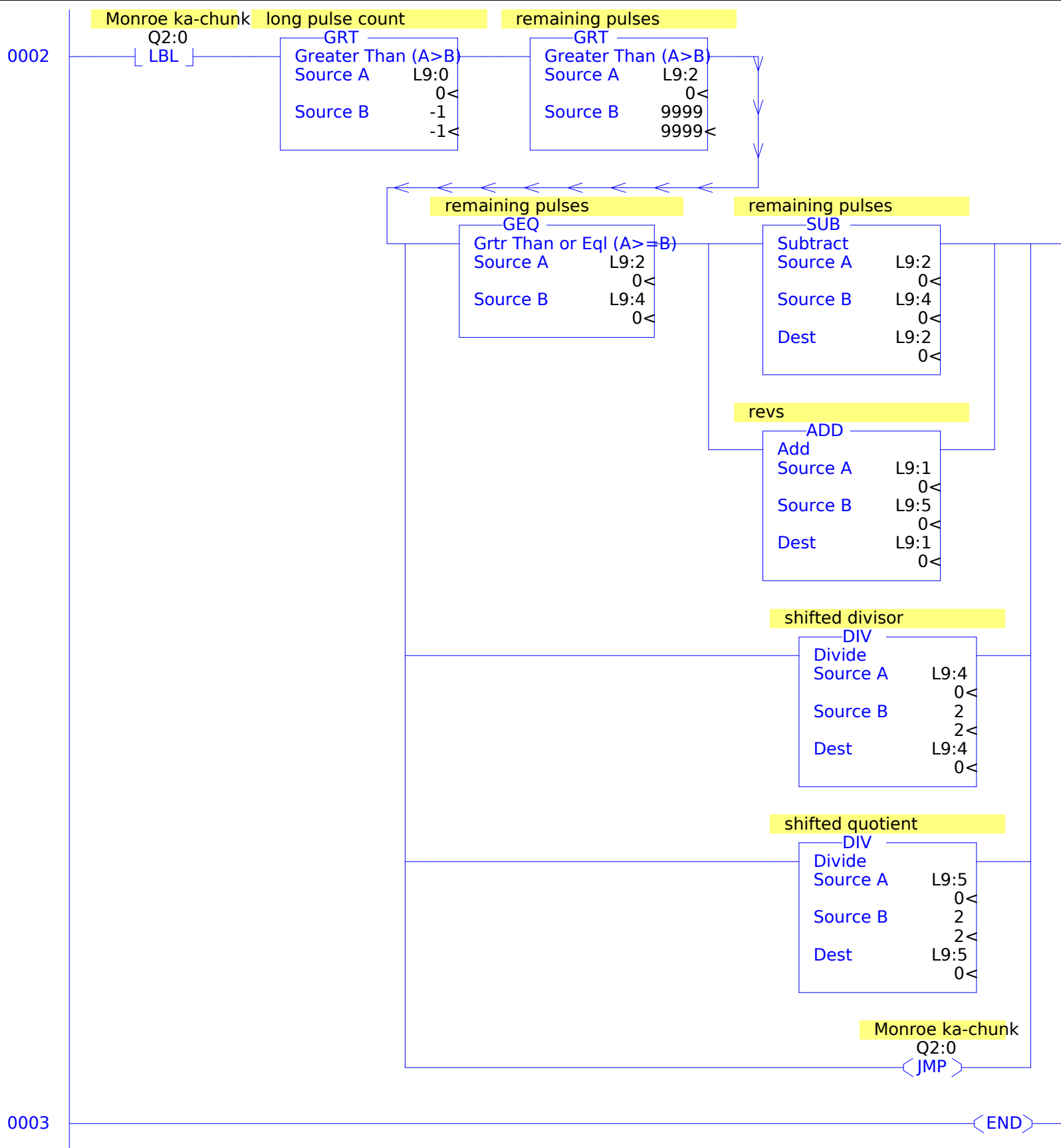   Contact:
   Location:

Program File List

Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
	2	LADDER	4	No	293

Data File List

Name	Number	Type	Scope	Debug	Words	Elements	Last
OUTPUT	0	O	Global	No	12	4	O:3
INPUT	1	I	Global	No	18	6	I:5
STATUS	2	S	Global	No	0	66	S:65
BINARY	3	B	Global	No	24	24	B3:23
TIMER	4	T	Global	No	3	1	T4:0
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	2	2	N7:1
FLOAT	8	F	Global	No	20	10	F8:9
MISCELLANY	9	L	Global	No	20	10	L9:9

0000

First Pass
S:1
┤ ├
15

-1
┌─MOV────────────┐
│ Move   │
│ Source   -1 │
│   -1< │
│ Dest   L9:6 │
│   0< │
└────────────────┘

0001

long pulse count
┌─NEQ────────────┐
│ Not Equal   │
│ Source A   L9:0│
│   0< │
│ Source B   L9:3│
│   0< │
└────────────────┘

old long pulse count
┌─MOV────────────┐
│ Move   │
│ Source   L9:0│
│   0< │
│ Dest   L9:3│
│   0< │
└────────────────┘

long pulse count
┌─GRT──────────────┐
│ Greater Than (A>B)│
│ Source A   L9:0 │
│   0<   │
│ Source B   -1   │
│   -1<   │
└──────────────────┘

shifted quotient
┌─AND───────────────┐
│ Bitwise AND   │
│ Source A   L9:6 │
│   00000000h<│
│ Source B   131072 │
│   131072< │
│ Dest   L9:5 │
│   00000000h<│
└───────────────────┘

shifted divisor
┌─AND─────────────────┐
│ Bitwise AND   │
│ Source A   L9:6 │
│   00000000h< │
│ Source B 1310720000 │
│   1310720000< │
│ Dest   L9:4 │
│   00000000h< │
└─────────────────────┘

remaining pulses
┌─MOV────────────┐
│ Move   │
│ Source   L9:0│
│   0< │
│ Dest   L9:2│
│   0< │
└────────────────┘

revs
┌─MOV────────────┐
│ Move   │
│ Source   0 │
│   0< │
│ Dest   L9:1│
│   0< │
└────────────────┘

0002

Monroe ka-chunk
Q2:0
⊣ LBL ⊢

long pulse count
┌─GRT─────────────┐
│ Greater Than (A>B) │
│ Source A   L9:0 │
│   0< │
│ Source B   -1 │
│   -1< │
└────────────────────┘

remaining pulses
┌─GRT─────────────┐
│ Greater Than (A>B) │
│ Source A   L9:2 │
│   0< │
│ Source B   9999 │
│   9999< │
└────────────────────┘

remaining pulses
┌─GEQ──────────────────┐
│ Grtr Than or Eql (A>=B) │
│ Source A   L9:2 │
│   0< │
│ Source B   L9:4 │
│   0< │
└──────────────────────┘

remaining pulses
┌─SUB─────────────┐
│ Subtract   │
│ Source A   L9:2 │
│   0< │
│ Source B   L9:4 │
│   0< │
│ Dest   L9:2 │
│   0< │
└──────────────────┘

revs
┌─ADD─────────────┐
│ Add   │
│ Source A   L9:1 │
│   0< │
│ Source B   L9:5 │
│   0< │
│ Dest   L9:1 │
│   0< │
└──────────────────┘

shifted divisor
┌─DIV─────────────┐
│ Divide   │
│ Source A   L9:4 │
│   0< │
│ Source B   2 │
│   2< │
│ Dest   L9:4 │
│   0< │
└──────────────────┘

shifted quotient
┌─DIV─────────────┐
│ Divide   │
│ Source A   L9:5 │
│   0< │
│ Source B   2 │
│   2< │
│ Dest   L9:5 │
│   0< │
└──────────────────┘

Monroe ka-chunk
Q2:0
〈 JMP 〉

0003

〈 END 〉

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

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	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	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 = 1110-1001-0110-0011

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 = 0
Watchdog (x10 ms) S:3 (high byte) = 10
Last 100 uSec Scan Time S:35 = 13
Scan Toggle Bit S:33/9 = 0

Math

Math Overflow Selected S:2/14 = 0   Math Register (lo word) S:13 = 0
Overflow Trap S:5/0 = 0   Math Register (high word) S:14-S:13 = 0
Carry S:0/0 = 0   Math Register (32 Bit) S:14-S:13 = 0
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

Errors

Fault Override At Power Up S:1/8 = 0   Fault Routine S:29 = 0
Startup Protection Fault S:1/9 = 0   Major Error S:6 = 0h
Major Error Halt S:1/13 = 0
Overflow Trap S:5/0 = 0   Error Description:
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

Protection

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

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 = 0

Forces

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

```
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
B3:1      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:2      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:3      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:4      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:5      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:6      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:7      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:8      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:9      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:10     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:11     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:12     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:13     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:14     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:15     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:16     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:17     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:18     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:19     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:20     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:21     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:22     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
B3:23     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol)	Description
T4:0	0	0	0	.01 sec	0	0		

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

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

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

Offset	0	1	2	3	4
F8:0	0	0	0	0	0
F8:5	0	0	0	0	0

Offset	0	1	2	3	4
L9:0	0	0	0	0	0
L9:5	0	0	0	0	0

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
B3:0/0			disable math				
F8:0			float rev.pulse				
L9:0			long pulse count				
L9:1			revs				
L9:2			remaining pulses				
L9:3			old long pulse count				
L9:4			shifted divisor				
L9:5			shifted quotient				
L9:6			-1				
Q2:0			Monroe ka-chunk				
S:0			Arithmetic Flags				
S:0/0			Processor Arithmetic Carry Flag				
S:0/1			Processor Arithmetic Underflow/ Overflow Flag				
S:0/2			Processor Arithmetic Zero Flag				
S:0/3			Processor Arithmetic Sign Flag				
S:1			Processor Mode Status/ Control				
S:1/0			Processor Mode Bit 0				
S:1/1			Processor Mode Bit 1				
S:1/2			Processor Mode Bit 2				
S:1/3			Processor Mode Bit 3				
S:1/4			Processor Mode Bit 4				
S:1/5			Forces Enabled				
S:1/6			Forces Present				
S:1/7			Comms Active				
S:1/8			Fault Override at Powerup				
S:1/9			Startup Protection Fault				
S:1/10			Load Memory Module on Memory Error				
S:1/11			Load Memory Module Always				
S:1/12			Load Memory Module and RUN				
S:1/13			Major Error Halted				
S:1/14			Access Denied				
S:1/15			First Pass				
S:2/0			STI Pending				
S:2/1			STI Enabled				
S:2/2			STI Executing				
S:2/3			Index Addressing File Range				
S:2/4			Saved with Debug Single Step				
S:2/5			DH-485 Incoming Command Pending				
S:2/6			DH-485 Message Reply Pending				
S:2/7			DH-485 Outgoing Message Command Pending				
S:2/15			Comms Servicing Selection				
S:3			Current Scan Time/ Watchdog Scan Time				
S:4			Time Base				
S:5/0			Overflow Trap				
S:5/2			Control Register Error				
S:5/3			Major Err Detected Executing UserFault Routine				
S:5/4			M0-M1 Referenced on Disabled Slot				
S:5/8			Memory Module Boot				
S:5/9			Memory Module Password Mismatch				
S:5/10			STI Overflow				
S:5/11			Battery Low				
S:6			Major Error Fault Code				
S:7			Suspend Code				
S:8			Suspend File				
S:9			Active Nodes				
S:10			Active Nodes				
S:11			I/O Slot Enables				
S:12			I/O Slot Enables				
S:13			Math Register				
S:14			Math Register				
S:15			Node Address/ Baud Rate				
S:16			Debug Single Step Rung				
S:17			Debug Single Step File				
S:18			Debug Single Step Breakpoint Rung				
S:19			Debug Single Step Breakpoint File				
S:20			Debug Fault/ Powerdown Rung				
S:21			Debug Fault/ Powerdown File				
S:22	S	Global	Maximum Observed Scan Time				
S:23			Average Scan Time				
S:24			Index Register				
S:25			I/O Interrupt Pending				
S:26			I/O Interrupt Pending				
S:27			I/O Interrupt Enabled				
S:28			I/O Interrupt Enabled				
S:29			User Fault Routine File Number				
S:30			STI Setpoint				
S:31			STI File Number				
S:32			I/O Interrupt Executing				
S:33			Extended Proc Status Control Word				
S:33/0			Incoming Command Pending				
S:33/1			Message Reply Pending				
S:33/2			Outgoing Message Command Pending				
S:33/3			Selection Status User/DF1				
S:33/4			Communicat Active				

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
S:33/5			Communicat Servicing Selection				
S:33/6			Message Servicing Selection Channel 0				
S:33/7			Message Servicing Selection Channel 1				
S:33/8			Interrupt Latency Control Flag				
S:33/9			Scan Toggle Flag				
S:33/10			Discrete Input Interrupt Reconfigur Flag				
S:33/11			Online Edit Status				
S:33/12			Online Edit Status				
S:33/13			Scan Time Timebase Selection				
S:33/14			DTR Control Bit				
S:33/15			DTR Force Bit				
S:34			Pass-thru Disabled				
S:34/0			Pass-Thru Disabled Flag				
S:34/1			DH+ Active Node Table Enable Flag				
S:34/2			Floating Point Math Flag Disable,Fl				
S:35			Last 1 ms Scan Time				
S:36			Extended Minor Error Bits				
S:36/8			DII Lost				
S:36/9			STI Lost				
S:36/10			Memory Module Data File Overwrite Protection				
S:37			Clock Calendar Year				
S:38			Clock Calendar Month				
S:39			Clock Calendar Day				
S:40			Clock Calendar Hours				
S:41			Clock Calendar Minutes				
S:42			Clock Calendar Seconds				
S:43			STI Interrupt Time				
S:44			I/O Event Interrupt Time				
S:45			DII Interrupt Time				
S:46			Discrete Input Interrupt- File Number				
S:47			Discrete Input Interrupt- Slot Number				
S:48			Discrete Input Interrupt- Bit Mask				
S:49			Discrete Input Interrupt- Compare Value				
S:50			Processor Catalog Number				
S:51			Discrete Input Interrupt- Return Number				
S:52			Discrete Input Interrupt- Accumulat				
S:53			Reserved/ Clock Calendar Day of the Week				
S:55			Last DII Scan Time				
S:56			Maximum Observed DII Scan Time				
S:57			Operating System Catalog Number				
S:58			Operating System Series				
S:59			Operating System FRN				
S:61			Processor Series				
S:62			Processor Revision				
S:63			User Program Type				
S:64			User Program Functional Index				
S:65			User RAM Size				
S:66			Flash EEPROM Size				
S:67			Channel 0 Active Nodes				
S:68			Channel 0 Active Nodes				
S:69			Channel 0 Active Nodes				
S:70			Channel 0 Active Nodes				
S:71			Channel 0 Active Nodes				
S:72			Channel 0 Active Nodes				
S:73			Channel 0 Active Nodes				
S:74			Channel 0 Active Nodes				
S:75			Channel 0 Active Nodes				
S:76			Channel 0 Active Nodes				
S:77			Channel 0 Active Nodes				
S:78			Channel 0 Active Nodes				
S:79			Channel 0 Active Nodes				
S:80			Channel 0 Active Nodes				
S:81			Channel 0 Active Nodes				
S:82			Channel 0 Active Nodes				
S:83			DH+ Active Nodes				
S:84			DH+ Active Nodes				
S:85			DH+ Active Nodes				
S:86			DH+ Active Nodes				

Address	Instruction	Description

Group_Name   Description