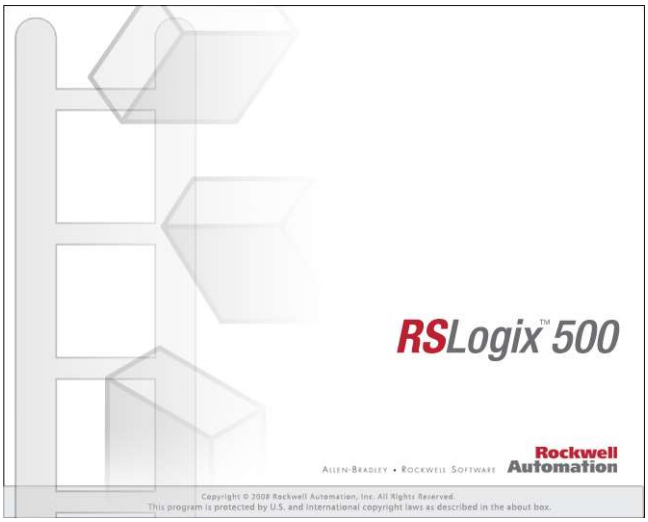
RSLogix Micro Project Report



Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 246 Instruction Words Used - 57 Data Table Words Used

Total Memory Left: 6410 Instruction Words Left

Program Files: 6

Data Files: 9

Program ID: 333c

I/O Configuration

0	Bul.1763	MicroLogix 1100 Series B
1	1762-IQ8	8-Input 10/30 VDC
2	1762-OW8	8-Output Relay
3		
4		

Channel Configuration

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: 0.0.0.0
   Subnet Mask: 0.0.0.0
   Gateway Address: 0.0.0.0
   Msg Connection Timeout (x 1mS): 15000
   Msg Reply Timeout (x mS): 3000
   Inactivity Timeout (x Min): 30
   Bootp Enable: Yes
   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:

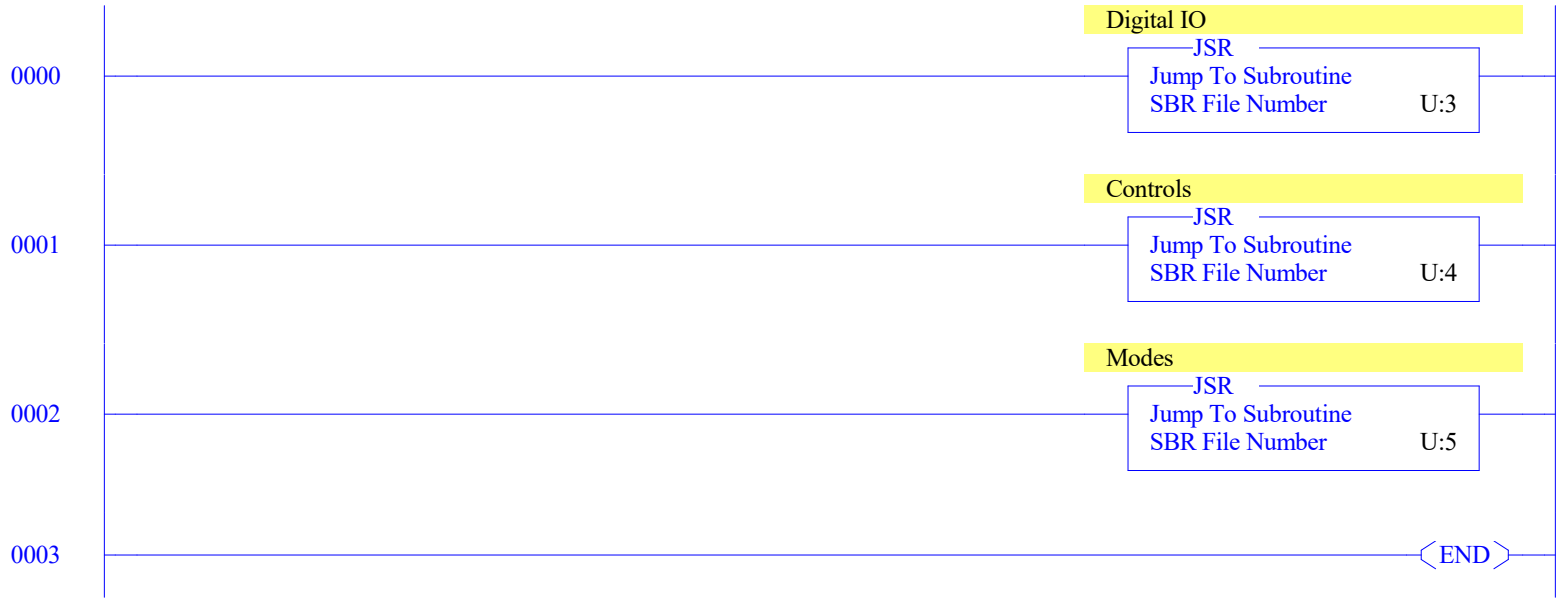
Program File List

Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
MAIN	2	LADDER	4	No	30
DIGITAL IO	3	LADDER	7	No	99
CONTROLS	4	LADDER	13	No	474
MODES	5	LADDER	8	No	204

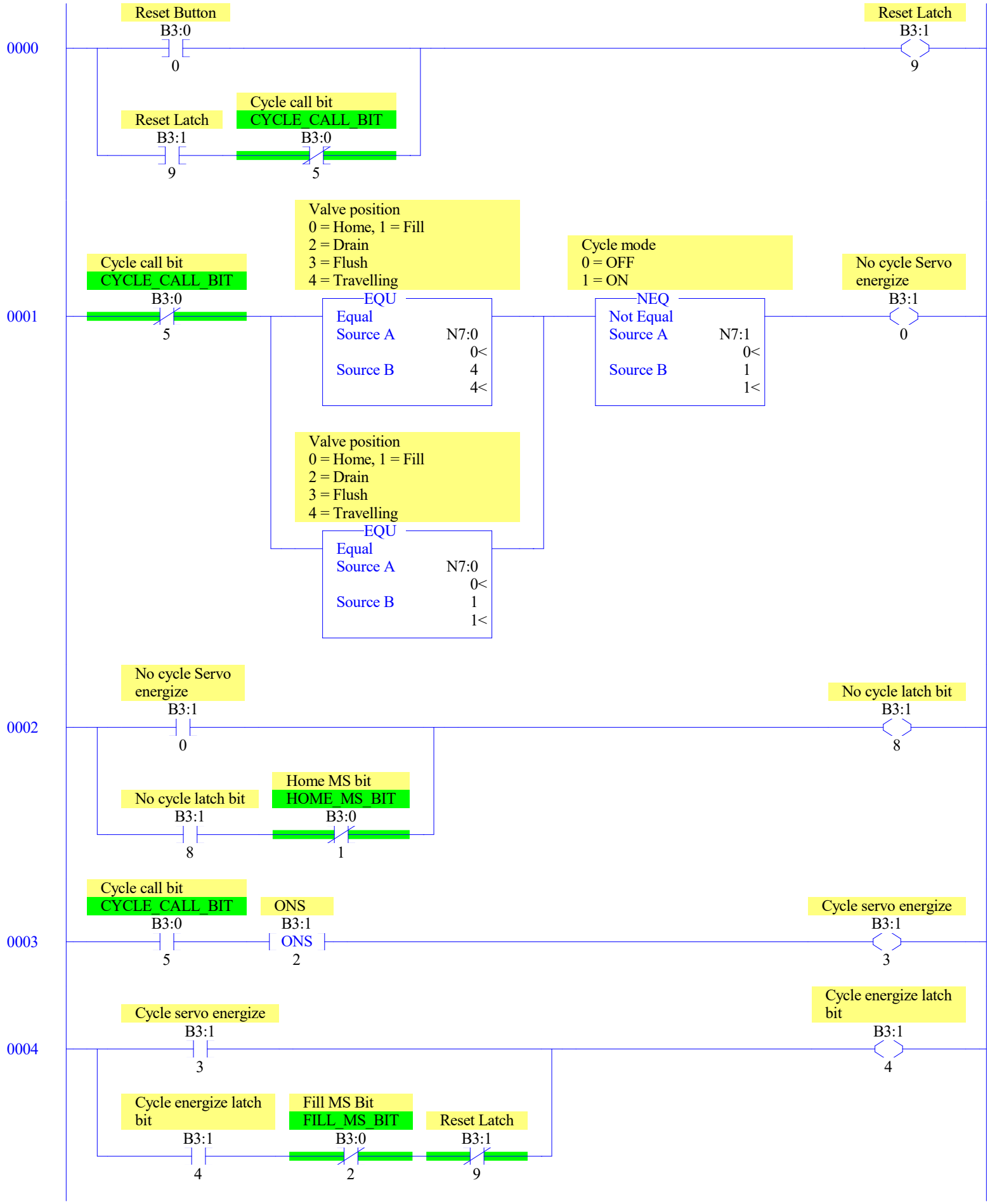
Data File List

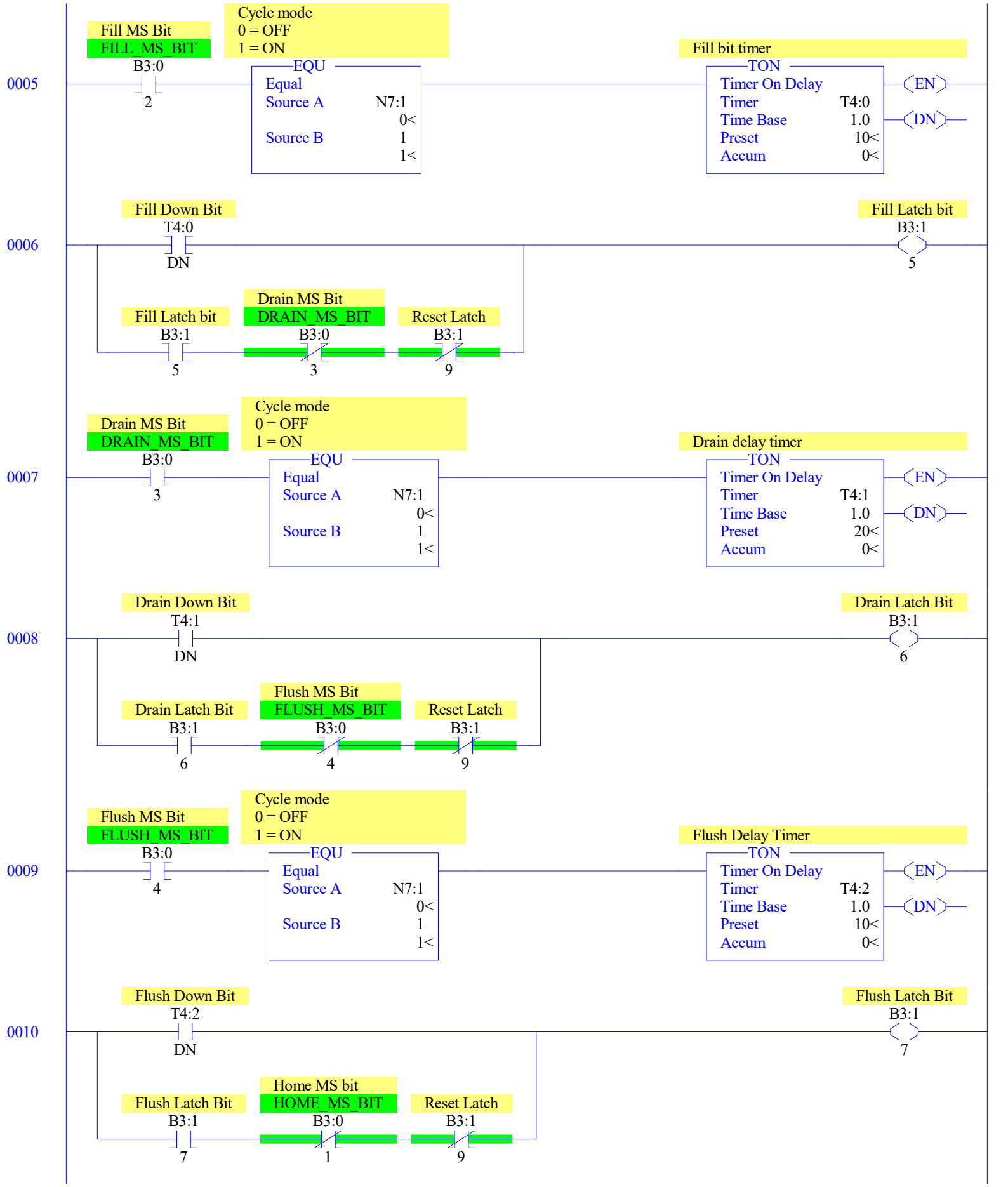
Name	Number	Type	Scope	Debug	Words	Elements	Last
OUTPUT	0	O	Global	No	15	5	O:4
INPUT	1	I	Global	No	21	7	I:6
STATUS	2	S	Global	No	0	66	S:65
BINARY	3	B	Global	No	2	2	B3:1
TIMER	4	T	Global	No	9	3	T4:2
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	2	2	N7:1
FLOAT	8	F	Global	No	2	1	F8:0

LAD 2 - MAIN --- Total Rungs in File = 4

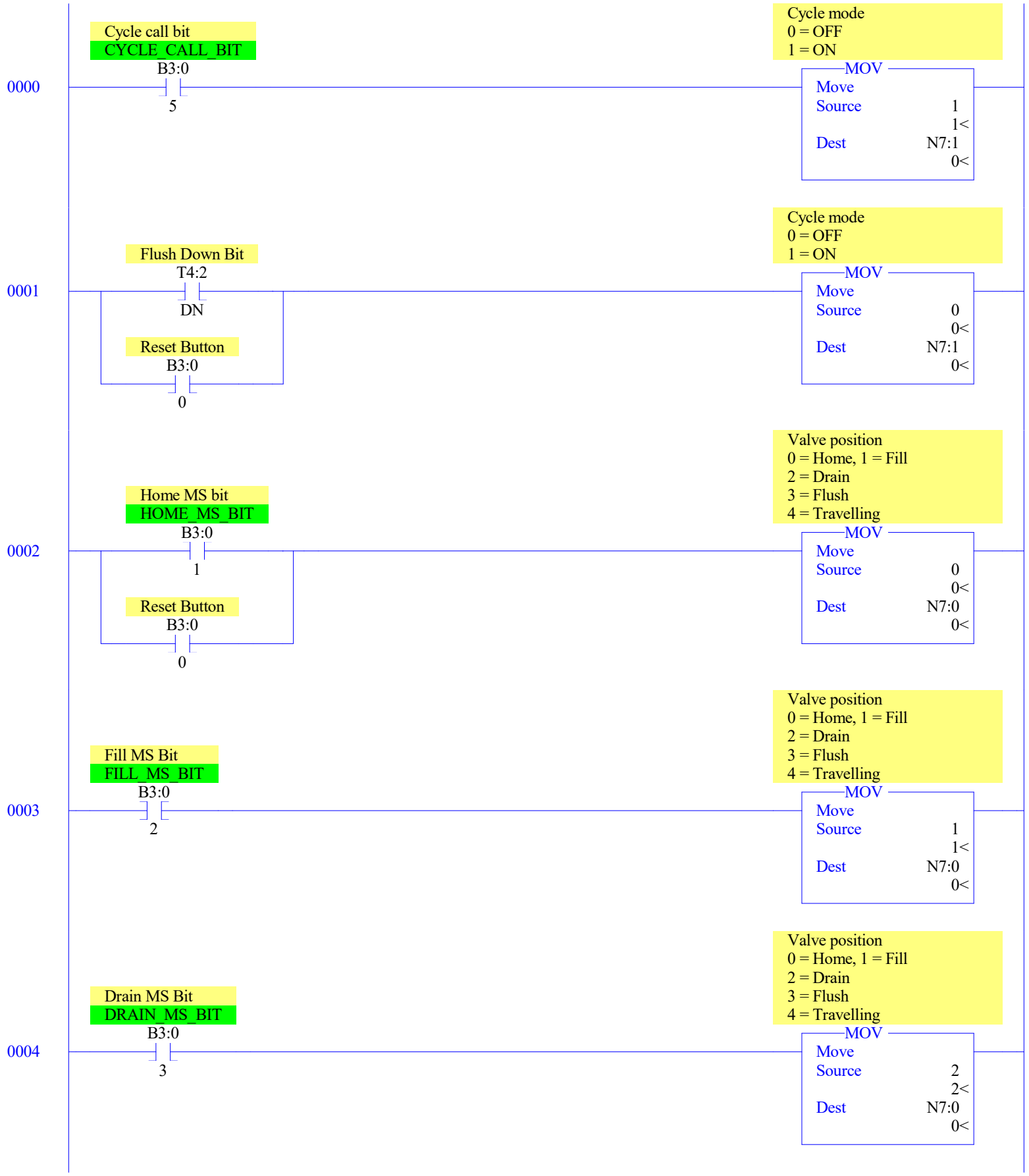


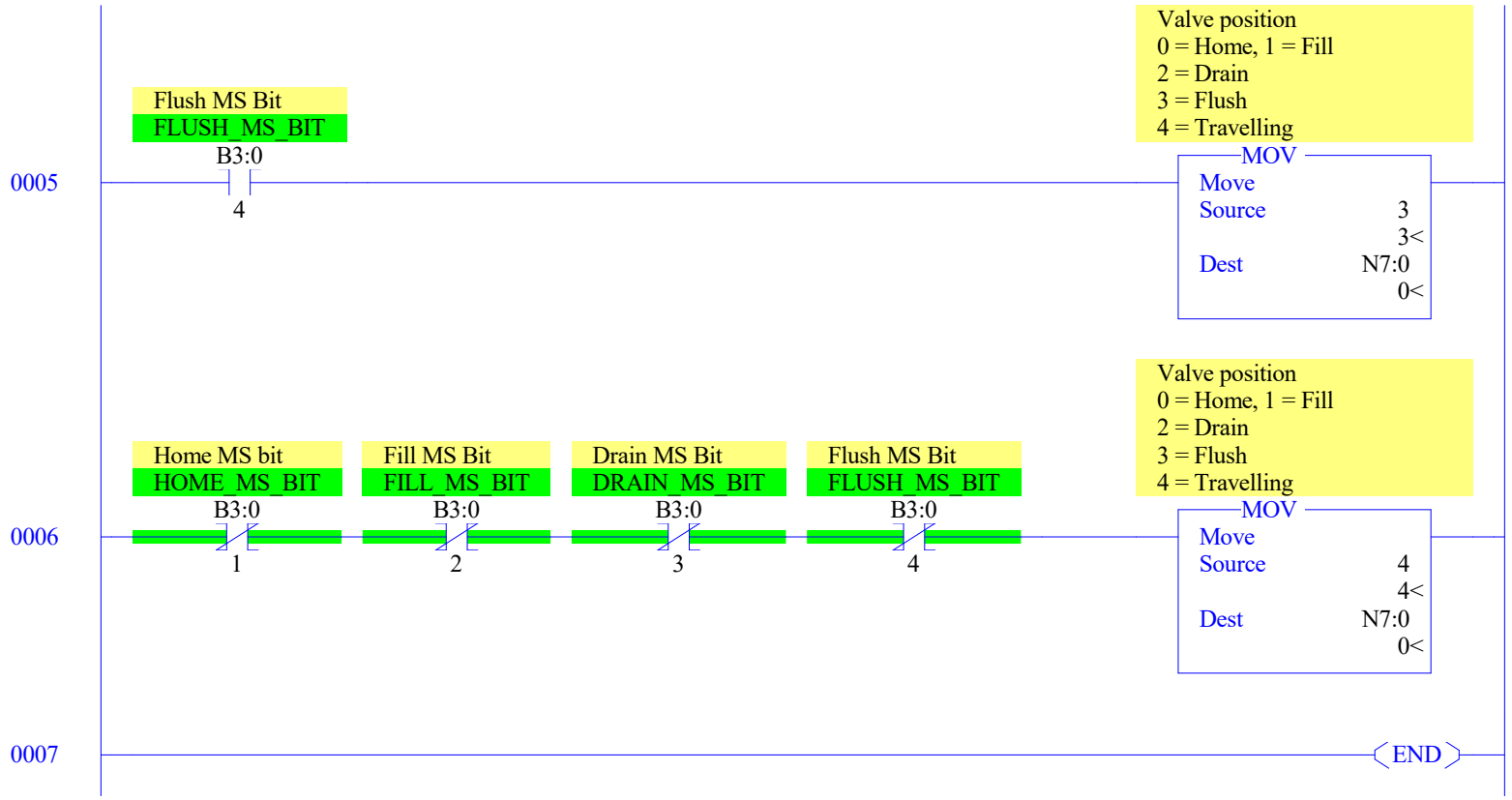
LAD 3 - DIGITAL IO --- Total Rungs in File = 7


0000
Reset Button
B3:0
0
Reset Latch
B3:1
9
Cycle call bit
CYCLE_CALL_BIT
B3:0
5
Reset Latch
B3:1
9
Reset Latch
B3:1
9
0001
Cycle call bit
CYCLE_CALL_BIT
B3:0
5
Valve position
0 = Home, 1 = Fill
2 = Drain
3 = Flush
4 = Travelling
EQU
Equal
Source A N7:0 0<
Source B 4 4<
Cycle mode
0 = OFF
1 = ON
NEQ
Not Equal
Source A N7:1 0<
Source B 1 1<
No cycle Servo energize
B3:1
0
Valve position
0 = Home, 1 = Fill
2 = Drain
3 = Flush
4 = Travelling
EQU
Equal
Source A N7:0 0<
Source B 1 1<
0002
No cycle Servo energize
B3:1
0
No cycle latch bit
B3:1
8
No cycle latch bit
B3:1
8
Home MS bit
HOME_MS_BIT
B3:0
1
0003
Cycle call bit
CYCLE_CALL_BIT
B3:0
5
ONS
B3:1
ONS
2
Cycle servo energize
B3:1
3
0004
Cycle servo energize
B3:1
3
Cycle energize latch bit
B3:1
4
Cycle energize latch bit
B3:1
4
Fill MS Bit
FILL_MS_BIT
B3:0
2
Reset Latch
B3:1
9


Fill MS Bit
FILL_MS_BIT
B3:0
2
Cycle mode
0 = OFF
1 = ON
EQU
Equal
Source A N7:1
0<
Source B 1
1<
Fill bit timer
TON
Timer On Delay
Timer T4:0
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
0005
Fill Down Bit
T4:0
DN
Fill Latch bit
B3:1
5
Drain MS Bit
DRAIN_MS_BIT
B3:0
3
Reset Latch
B3:1
9
Fill Latch bit
B3:1
5
0006
Drain MS Bit
DRAIN_MS_BIT
B3:0
3
Cycle mode
0 = OFF
1 = ON
EQU
Equal
Source A N7:1
0<
Source B 1
1<
Drain delay timer
TON
Timer On Delay
Timer T4:1
Time Base 1.0
Preset 20<
Accum 0<
EN
DN
0007
Drain Down Bit
T4:1
DN
Drain Latch Bit
B3:1
6
Flush MS Bit
FLUSH_MS_BIT
B3:0
4
Reset Latch
B3:1
9
Drain Latch Bit
B3:1
6
0008
Flush MS Bit
FLUSH_MS_BIT
B3:0
4
Cycle mode
0 = OFF
1 = ON
EQU
Equal
Source A N7:1
0<
Source B 1
1<
Flush Delay Timer
TON
Timer On Delay
Timer T4:2
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
0009
Flush Down Bit
T4:2
DN
Flush Latch Bit
B3:1
7
Home MS bit
HOME_MS_BIT
B3:0
1
Reset Latch
B3:1
9
Flush Latch Bit
B3:1
7
0010


0011
No cycle latch bit
B3:1
8
Cycle energize latch bit
B3:1
4
Fill Latch bit
B3:1
5
Drain Latch Bit
B3:1
6
Flush Latch Bit
B3:1
7
Servo bit
SERVO_BIT
B3:0
6
0012
END


0000
Cycle call bit
CYCLE_CALL_BIT
B3:0
5
Cycle mode
0 = OFF
1 = ON
MOV
Move
Source 1
1<
Dest N7:1
0<
0001
Flush Down Bit
T4:2
DN
Reset Button
B3:0
0
Cycle mode
0 = OFF
1 = ON
MOV
Move
Source 0
0<
Dest N7:1
0<
0002
Home MS bit
HOME_MS_BIT
B3:0
1
Reset Button
B3:0
0
Valve position
0 = Home, 1 = Fill
2 = Drain
3 = Flush
4 = Travelling
MOV
Move
Source 0
0<
Dest N7:0
0<
0003
Fill MS Bit
FILL_MS_BIT
B3:0
2
Valve position
0 = Home, 1 = Fill
2 = Drain
3 = Flush
4 = Travelling
MOV
Move
Source 1
1<
Dest N7:0
0<
0004
Drain MS Bit
DRAIN_MS_BIT
B3:0
3
Valve position
0 = Home, 1 = Fill
2 = Drain
3 = Flush
4 = Travelling
MOV
Move
Source 2
2<
Dest N7:0
0<


Valve position
0 = Home, 1 = Fill
2 = Drain
3 = Flush
4 = Travelling
Flush MS Bit
FLUSH_MS_BIT
B3:0
4
0005
MOV
Move
Source
3
3<
Dest
N7:0
0<
Valve position
0 = Home, 1 = Fill
2 = Drain
3 = Flush
4 = Travelling
Home MS bit
HOME_MS_BIT
B3:0
1
Fill MS Bit
FILL_MS_BIT
B3:0
2
Drain MS Bit
DRAIN_MS_BIT
B3:0
3
Flush MS Bit
FLUSH_MS_BIT
B3:0
4
0006
MOV
Move
Source
4
4<
Dest
N7:0
0<
0007
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
O:2.0									0	0	0	0	0	0	0	0	1762-OW8 - 8-Output Relay

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	0	0	0	Bul.1763 MicroLogix 1100 Series B-Analo
I:0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B-Analo
I:1.0									0	0	0	0	0	0	0	0	1762-IQ8 - 8-Input 10/30 VDC

Data File S2 (hex) -- STATUS

Main

Processor Mode S:1/0 - S:1/4 = Remote Program Mode
On Power up Go To Run (Mode Behavior) S:1/12 = 0
First Pass S:1/15 = No
Free Running Clock S:4 = 0000-0000-0000-0000

Proc

OS Catalog Number S:57 = 1100 User Program Type S:63 = 8001h
OS Series S:58 = A 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 = 0
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 Program Mode
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

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		
B3:1	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	0	0	0	1.0 sec	10	0		Fill bit timer
T4:1	0	0	0	1.0 sec	20	0		Drain delay timer
T4:2	0	0	0	1.0 sec	10	0		Flush Delay Timer

Data File C5 -- COUNTER

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

Data File R6 -- CONTROL

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		

Data File N7 (dec) -- INTEGER

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

Data File F8 -- FLOAT

Offset	0	1	2	3	4
F8:0	0				

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
B3:0/0			Reset Button	
B3:0/1	HOME_MS_BIT	Global	Home MS bit	
B3:0/2	FILL_MS_BIT	Global	Fill MS Bit	
B3:0/3	DRAIN_MS_BIT	Global	Drain MS Bit	
B3:0/4	FLUSH_MS_BIT	Global	Flush MS Bit	
B3:0/5	CYCLE_CALL_BIT	Global	Cycle call bit	
B3:0/6	SERVO_BIT	Global	Servo bit	
B3:1/0			No cycle Servo energize	
B3:1/1			ONS	
B3:1/2			ONS	
B3:1/3			Cycle servo energize	
B3:1/4			Cycle energize latch bit	
B3:1/5			Fill Latch bit	
B3:1/6			Drain Latch Bit	
B3:1/7			Flush Latch Bit	
B3:1/8			No cycle latch bit	
B3:1/9			Reset Latch	
I:0/0			Home MS	
I:0/1			Fill MS	
I:0/2			Drain MS	
I:0/3			Flush MS	
I:0/4			Cycle call	
N7:0			Valve position 0 = Home, 1 = Fill 2 = Drain 3 = Flush 4 = Travelling	
N7:1			Cycle mode 0 = OFF 1 = ON	
O:0/0			Servo	
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			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	

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
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	
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	
T4:0			Fill bit timer	
T4:0/DN			Fill Down Bit	
T4:1			Drain delay timer	
T4:1/DN			Drain Down Bit	
T4:2			Flush Delay Timer	
T4:2/DN			Flush Down Bit	
U:3			Digital IO	
U:4			Controls	
U:5			Modes	

Instruction Comment Database

Address	Instruction	Description

Symbol Group Database

Group_Name	Description