RSLogix Micro Project Report

Processor Type: Bul.1763   MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 164 Instruction Words Used - 48 Data Table Words Used

Total Memory Left: 6492 Instruction Words Left

Program Files: 5

Data Files: 9

Program ID: 6574

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

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
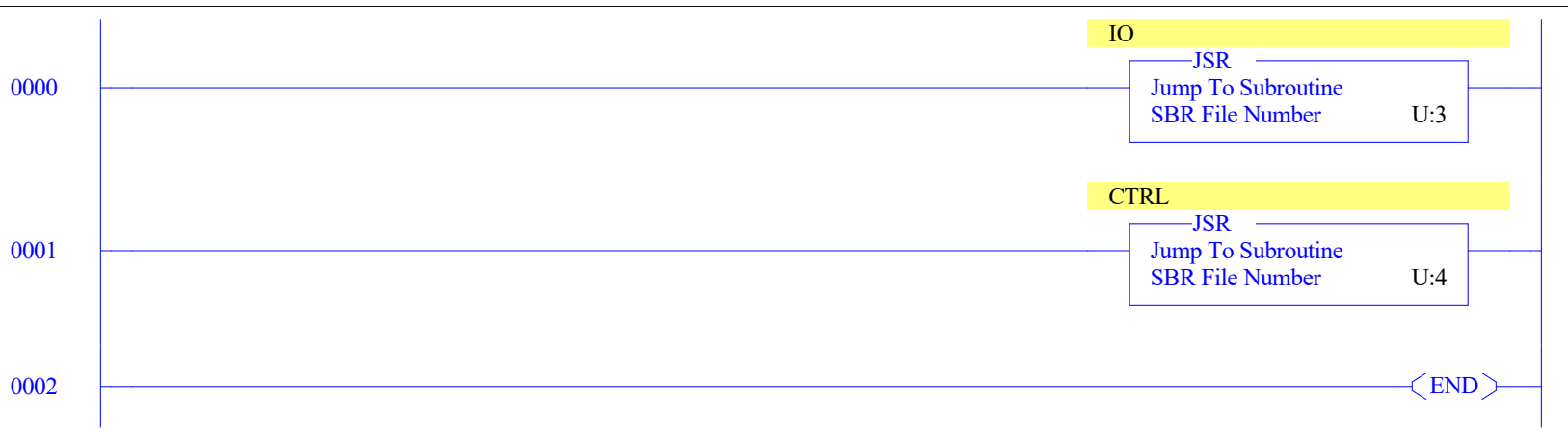   IP Address: 0.0.0.0
    Subnet Mask: 0.0.0.0
    Gateway Address: 0.0.0.0
    Msg Connection Timeout (x 1mS): 15000
    Msg Reply Timeout (x mS): 3000
    Inactivity Timeout (x Min): 30
    Bootp Enable: Yes
    Dhcp Enable No
    SNMP Enable: No
    HTTP Enable: Yes
    Auto Negotiate Enable: Yes
    Port Speed Enable: 10/100 Mbps Full Duplex/Half Duplex
    Contact:
    Location:

Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
MAIN	2	LADDER	3	No	21
IO	3	LADDER	8	No	115
CTRL	4	LADDER	6	No	250

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	3	3	B3:2
TIMER	4	T	Global	No	6	2	T4:1
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	1	1	N7:0
FLOAT	8	F	Global	No	2	1	F8:0

```
                                                          IO
                                             ┌─────JSR─────────────┐
0000 ───────────────────────────────────────┤ Jump To Subroutine  ├───────
                                             │ SBR File Number  U:3 │
                                             └─────────────────────┘

                                                          CTRL
                                             ┌─────JSR─────────────┐
0001 ───────────────────────────────────────┤ Jump To Subroutine  ├───────
                                             │ SBR File Number  U:4 │
                                             └─────────────────────┘


0002 ─────────────────────────────────────────────────────────〈 END 〉─────
```

INPUTS

0000

PROX SW
I:0
0
Bul.1763

PROX SW BIT
B3:0
0

0001

FULL LVL SENSOR
I:0
1
Bul.1763

FULL LVL SENSOR BIT
B3:0
1

0002

RED PHOTO EYE
I:0
2
Bul.1763

RED PHOTO EYE BIT
B3:0
2

0003

BLUE PHOTO EYE
I:0
3
Bul.1763

BLUE PHOTO EYE BIT
B3:0
3

OUTPUTS

0004

CONVEYOR MOTOR BIT
B3:1
0

CONVEYOR MOTOR
O:0
0
Bul.1763

0005

WALNUT HOPPER BIT
B3:1
1

WALNUT HOPPER
O:0
1
Bul.1763

0006

PECAN HOPPER BIT
B3:1
2

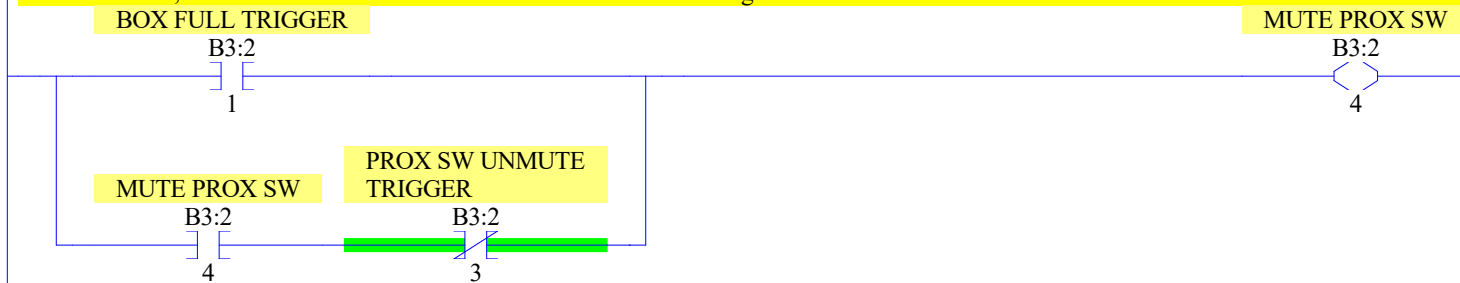PECAN HOPPER
O:0
2
Bul.1763

0007

END

0000

When PROX SW is active and the FULL LVL sensor has turned on, the box is full. After a moment to let the final bits of product fall, a BOX FULL TRIGGER is energized. Meanwhile, the PROX SW is muted and a separate timer is counting down to a PROX SW UNMUTE TRIGGER.
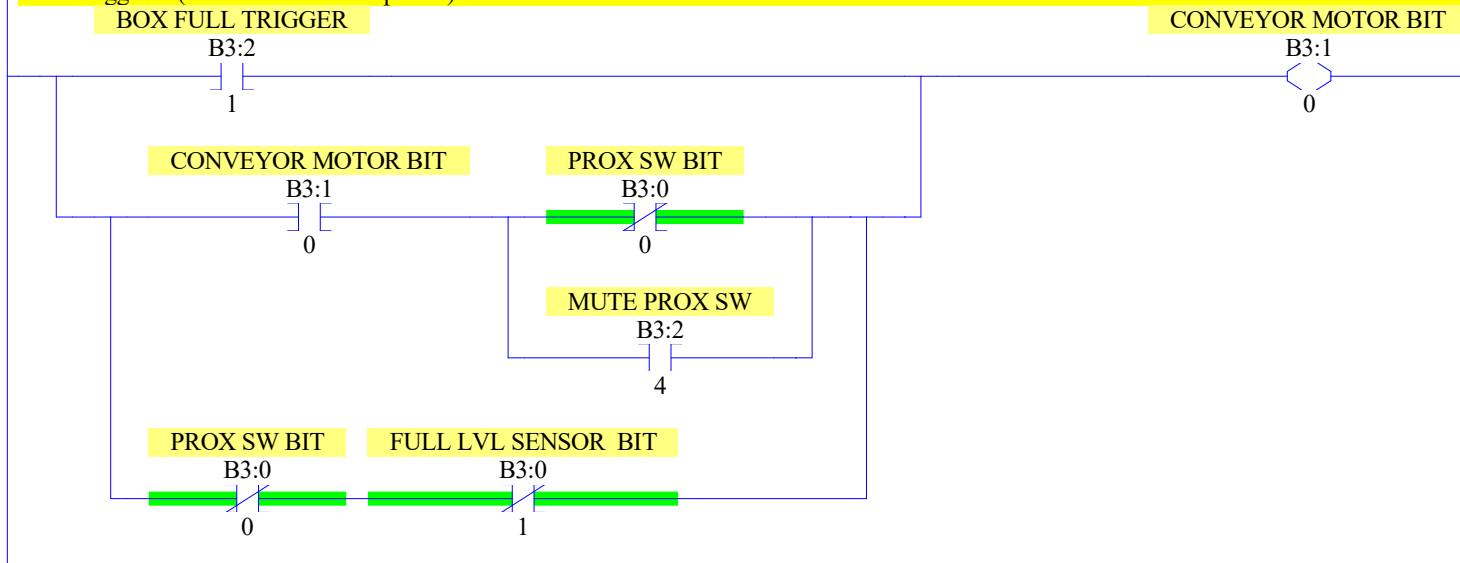
PROX SW BIT — B3:0 / 0
FULL LVL SENSOR BIT — B3:0 / 1

BOX FULL TIMER
TON — Timer On Delay
Timer — T4:0
Time Base — 1.0
Preset — 2<
Accum — 0<
EN / DN

BOX FULL TIMER — T4:0 / DN
ONS — B3:2 / 0
BOX FULL TRIGGER — B3:2 / 1

PROX SW MUTE TIMER
TON — Timer On Delay
Timer — T4:1
Time Base — 1.0
Preset — 5<
Accum — 0<
EN / DN

PROX SW MUTE TIMER — T4:1 / DN
ONS — B3:2 / 2
PROX SW UNMUTE TRIGGER — B3:2 / 3
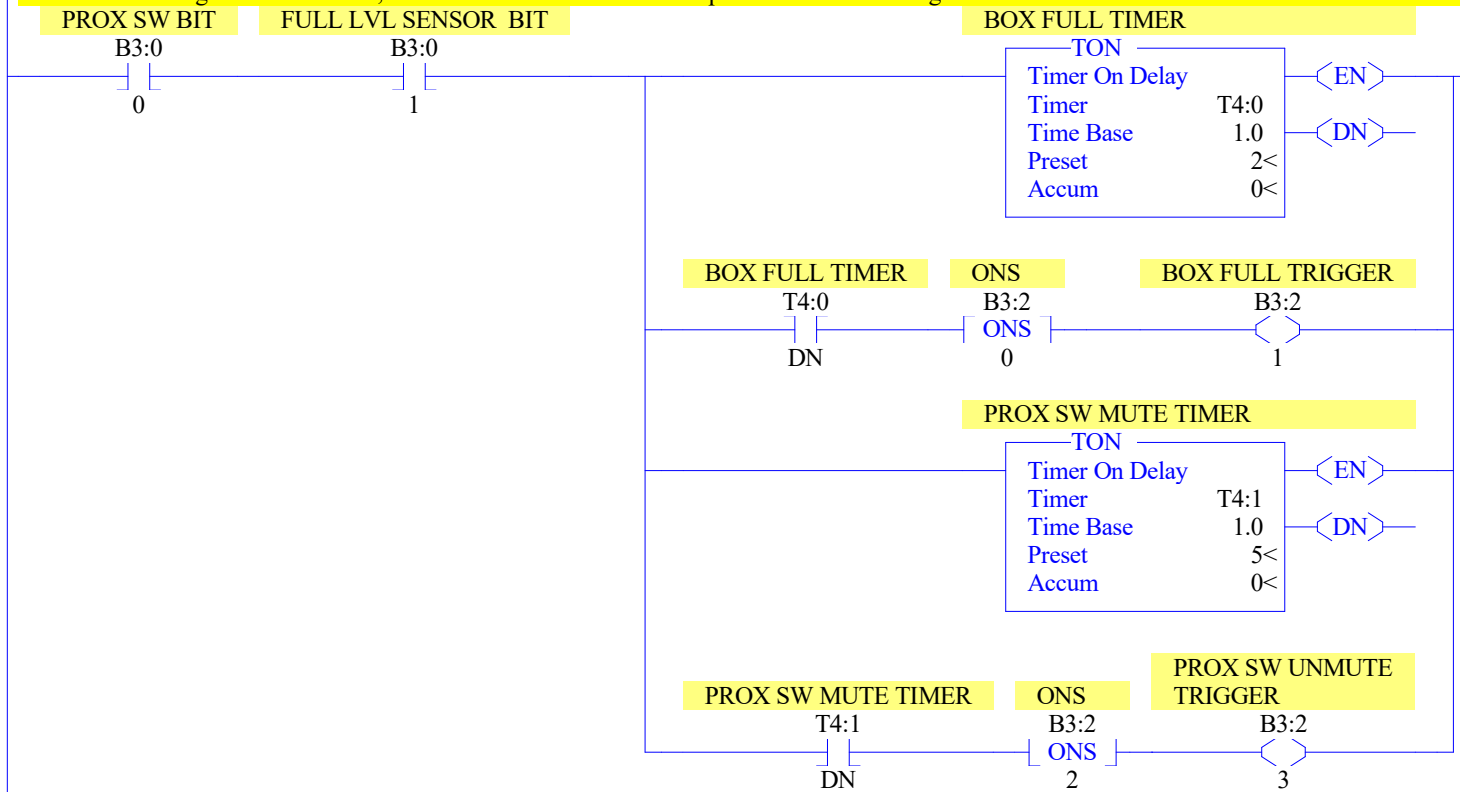
0001

On BOX FULL, mute PROX SW until UNMUTE commend comes through.

BOX FULL TRIGGER — B3:2 / 1
MUTE PROX SW — B3:2 / 4

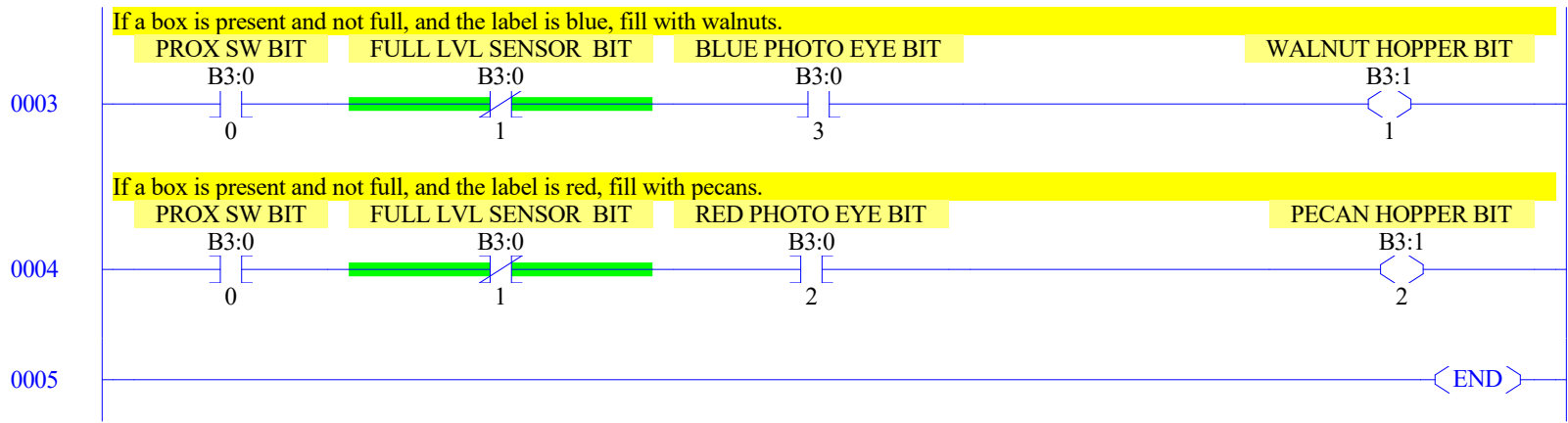MUTE PROX SW — B3:2 / 4
PROX SW UNMUTE TRIGGER — B3:2 / 3

0002

Conveyor Run command: When the PROX SW and the LVL SENSOR are off, run the conveyor. On BOX FULL, run the conveyor until the PROX SW is triggered (outside of MUTED period).

BOX FULL TRIGGER — B3:2 / 1
CONVEYOR MOTOR BIT — B3:1 / 0

CONVEYOR MOTOR BIT — B3:1 / 0
PROX SW BIT — B3:0 / 0

MUTE PROX SW — B3:2 / 4

PROX SW BIT — B3:0 / 0
FULL LVL SENSOR BIT — B3:0 / 1

0003

If a box is present and not full, and the label is blue, fill with walnuts.

PROX SW BIT	FULL LVL SENSOR BIT	BLUE PHOTO EYE BIT	WALNUT HOPPER BIT
B3:0	B3:0	B3:0	B3:1
0	1	3	1

0004

If a box is present and not full, and the label is red, fill with pecans.

PROX SW BIT	FULL LVL SENSOR BIT	RED PHOTO EYE BIT	PECAN HOPPER BIT
B3:0	B3:0	B3:0	B3:1
0	1	2	2

0005

⟨ 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
```

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-Analog
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-Analog

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

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

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	

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol) Description
T4:0	0	0	0	1.0 sec	2	0	BOX FULL TIMER
T4:1	0	0	0	1.0 sec	5	0	PROX SW MUTE TIMER

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									

P2_KOBIERSKI_M_V1

Data File N7 (dec) -- INTEGER

Offset	0	1	2	3	4
F8:0	0				

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
B3:0/0			PROX SW BIT				
B3:0/1			FULL LVL SENSOR BIT				
B3:0/2			RED PHOTO EYE BIT				
B3:0/3			BLUE PHOTO EYE BIT				
B3:1/0			CONVEYOR MOTOR BIT				
B3:1/1			WALNUT HOPPER BIT				
B3:1/2			PECAN HOPPER BIT				
B3:2/0			ONS				
B3:2/1			BOX FULL TRIGGER				
B3:2/2			ONS				
B3:2/3			PROX SW UNMUTE TRIGGER				
B3:2/4			MUTE PROX SW				
I:0/0			PROX SW				
I:0/1			FULL LVL SENSOR				
I:0/2			RED PHOTO EYE				
I:0/3			BLUE PHOTO EYE				
O:0/0			CONVEYOR MOTOR				
O:0/1			WALNUT HOPPER				
O:0/2			PECAN HOPPER				
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	Dev. Code	ABV	BLW
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			BOX FULL TIMER				
T4:0/DN							
T4:1			PROX SW MUTE TIMER				
T4:1/DN							
U:3			IO				
U:4			CTRL				

Address   Instruction   Description

Group_Name   Description