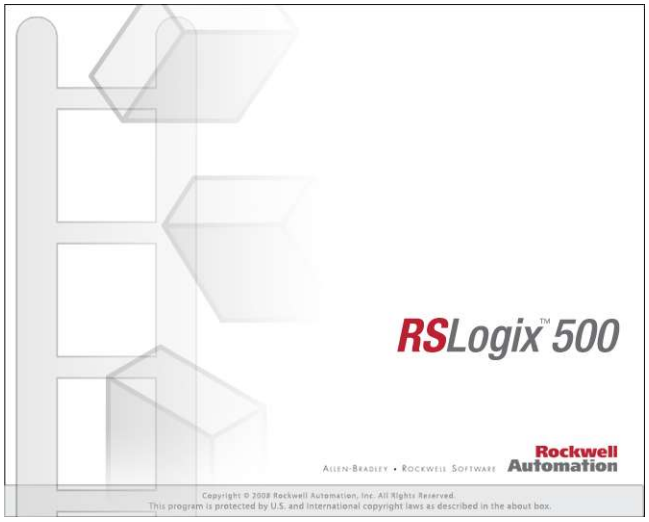
RSLogix Micro Project Report



Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 224 Instruction Words Used - 73 Data Table Words Used

Total Memory Left: 6432 Instruction Words Left

Program Files: 6

Data Files: 9

Program ID: 782c

I/O Configuration

0	Bul.1763	MicroLogix 1100 Series B
1		
2		
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:

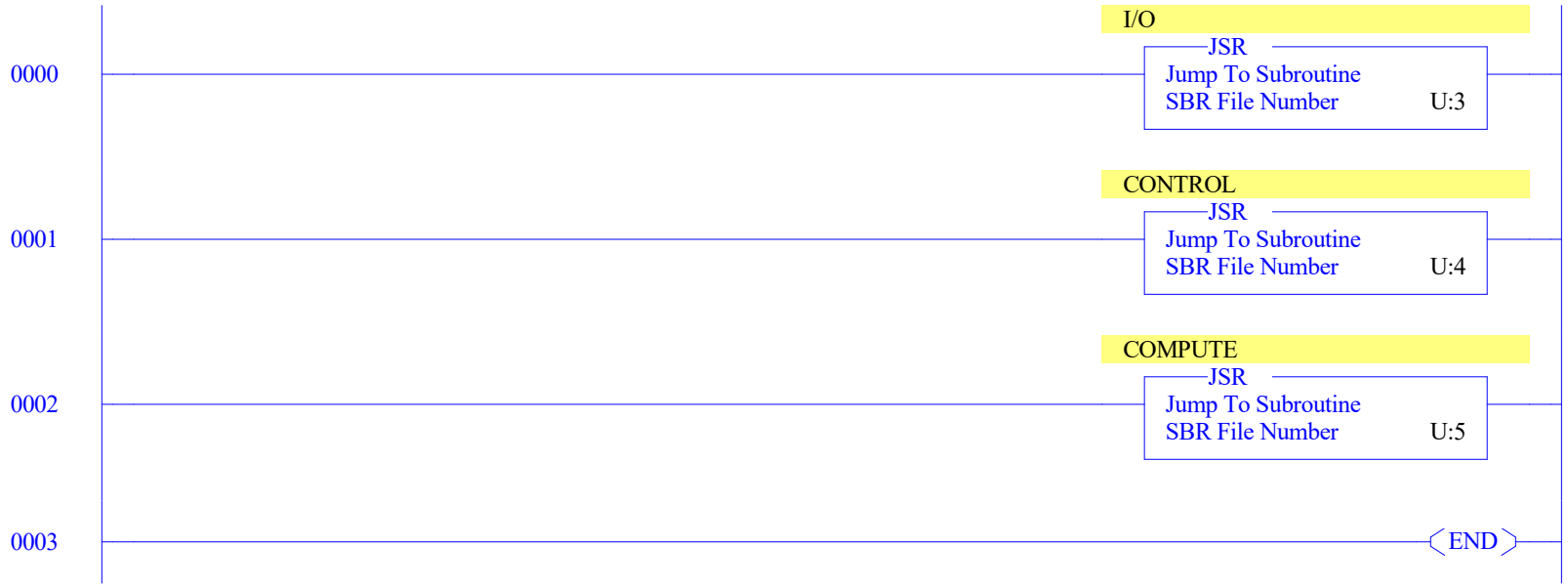
Program File List

Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
MAIN	2	LADDER	4	No	30
I/O	3	LADDER	3	No	201
CONTROL	4	LADDER	4	No	426
COMPUTE	5	LADDER	2	No	133

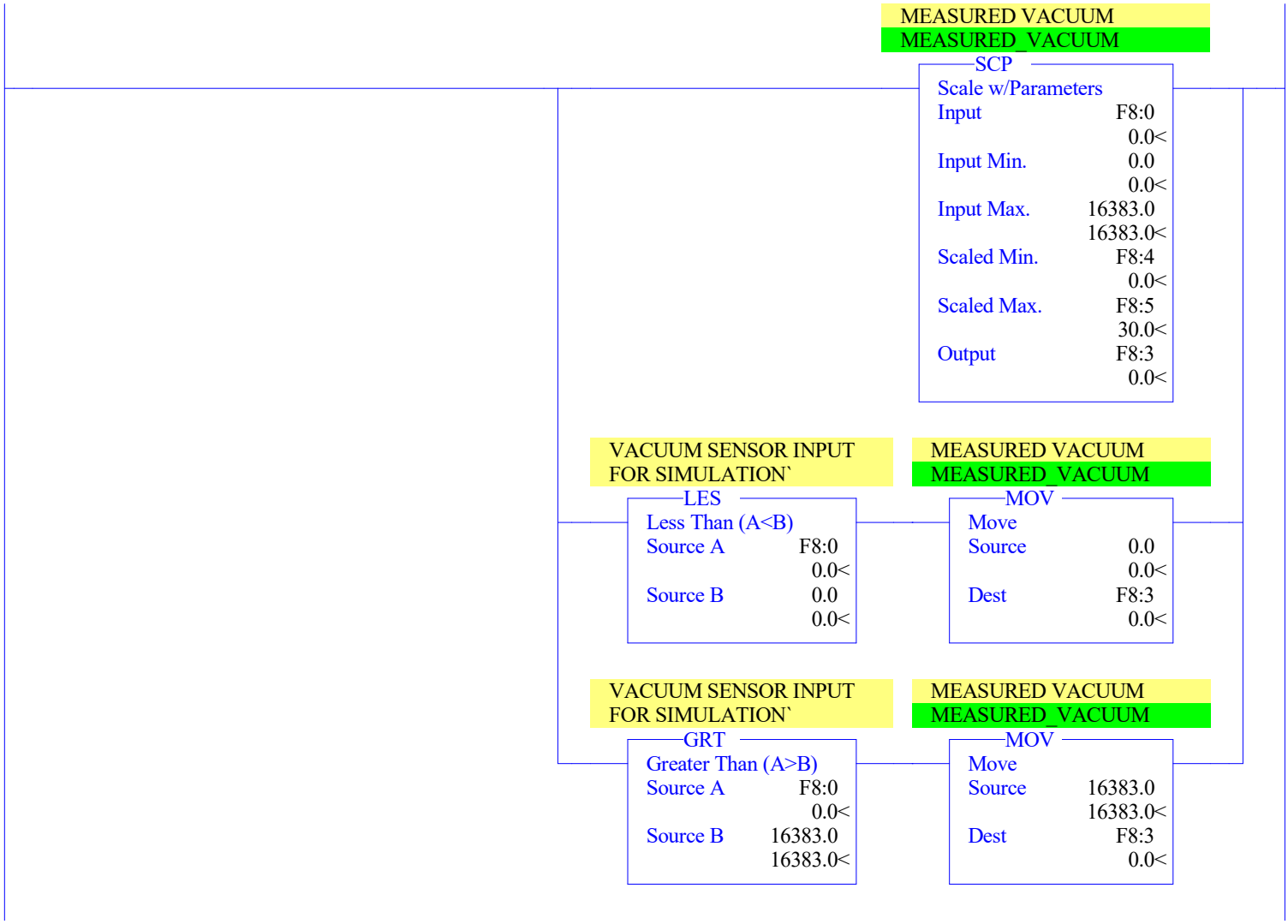
Data File List

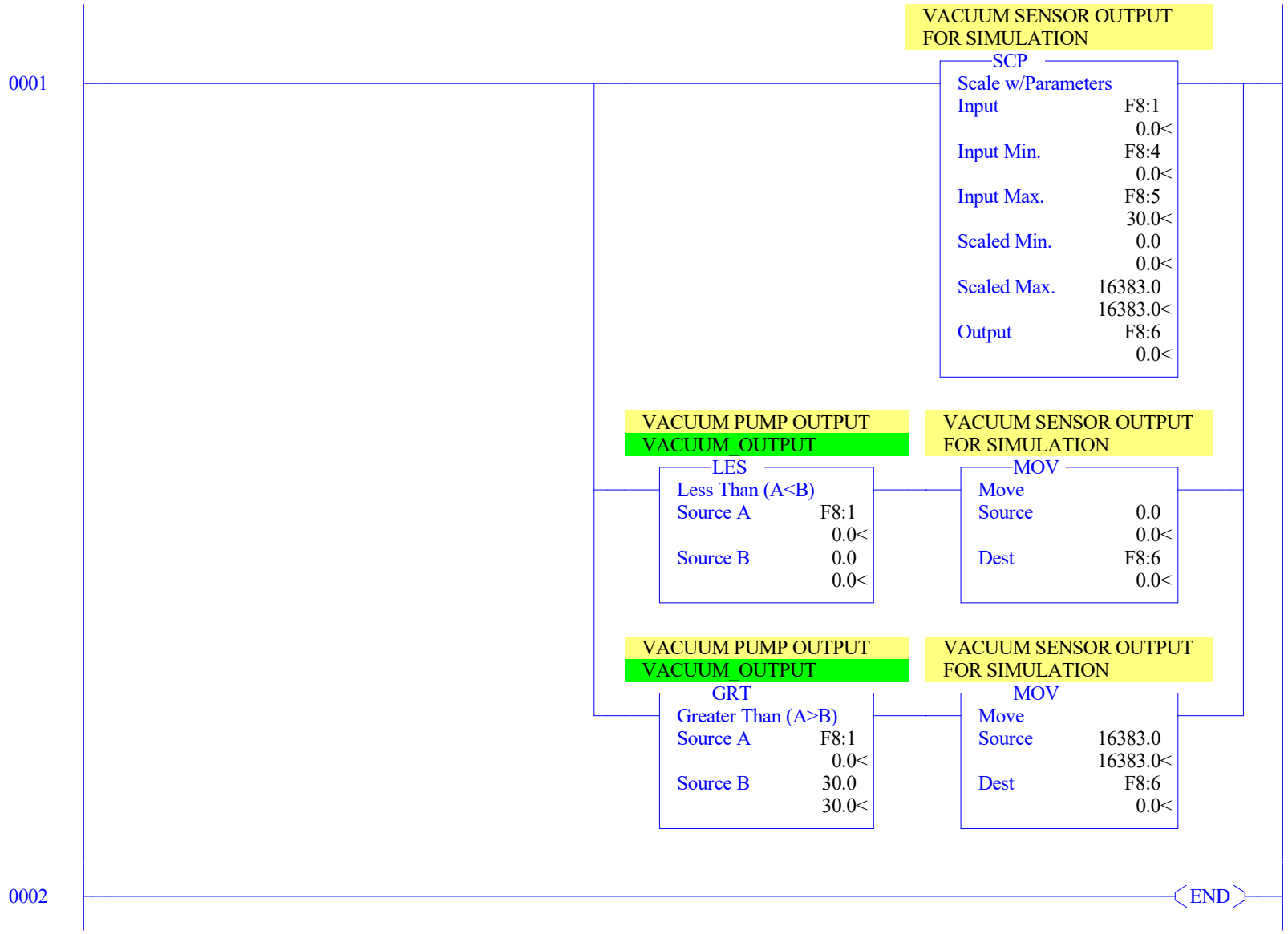
Name	Number	Type	Scope	Debug	Words	Elements	Last
OUTPUT	0	O	Global	No	12	4	O:3
INPUT	1	I	Global	No	18	6	I:5
STATUS	2	S	Global	No	0	66	S:65
BINARY	3	B	Global	No	1	1	B3:0
TIMER	4	T	Global	No	3	1	T4:0
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	7	7	N7:6
FLOAT	8	F	Global	No	26	13	F8:12

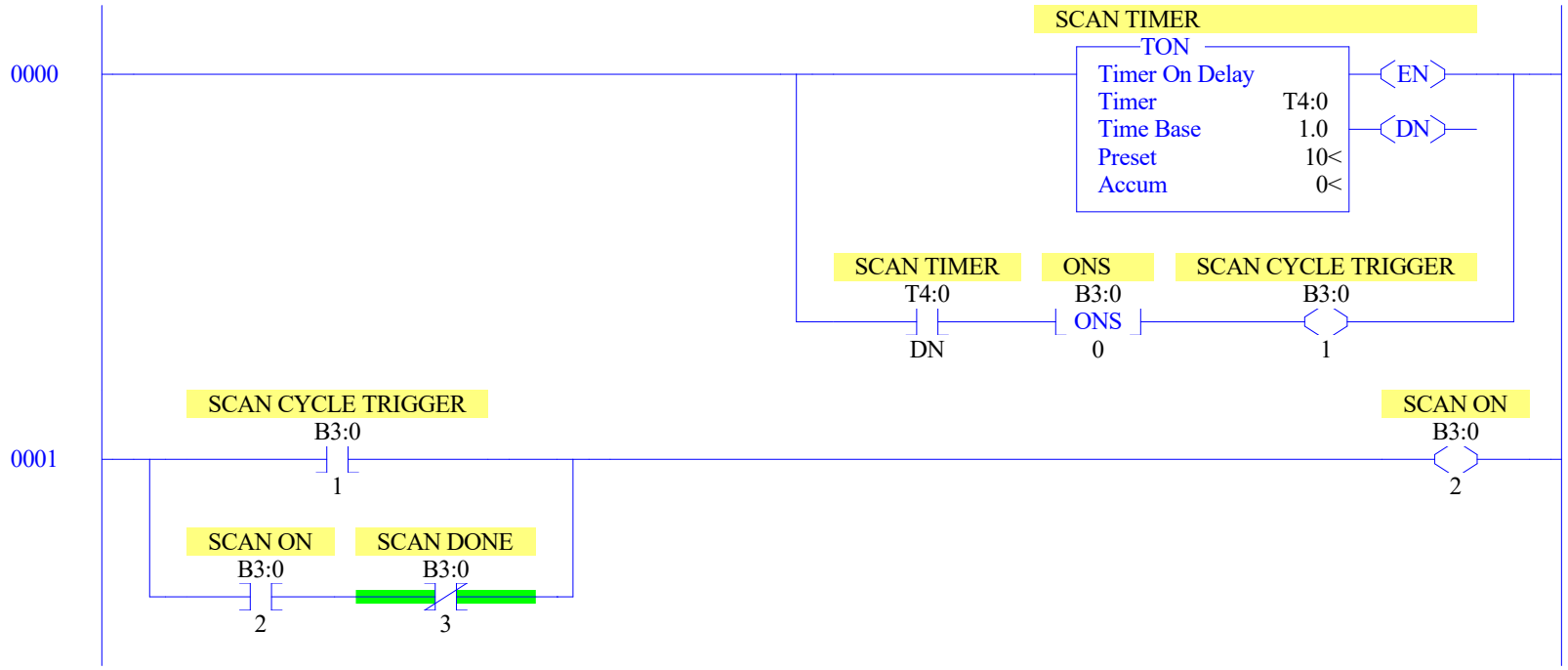
LAD 2 - MAIN --- Total Rungs in File = 4



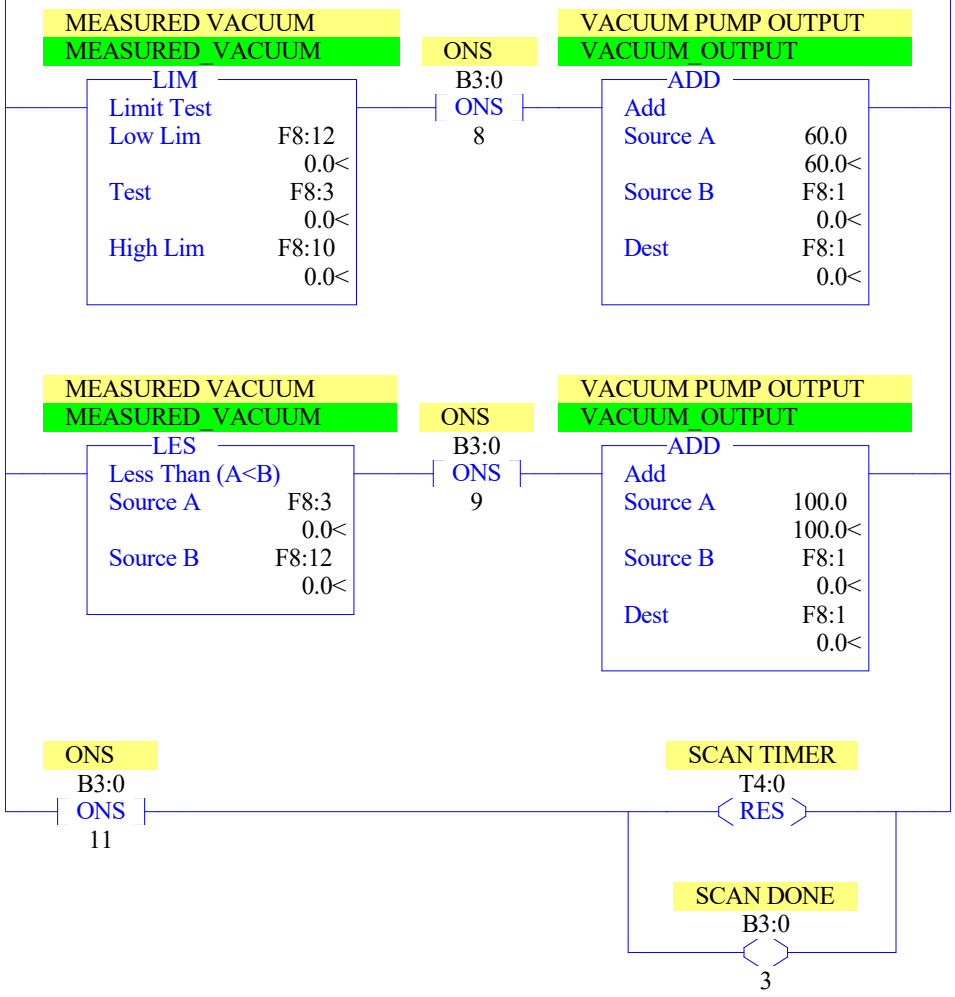
0000


MEASURED VACUUM
MEASURED_VACUUM
SCP
Scale w/Parameters
Input F8:0 0.0<
Input Min. 0.0 0.0<
Input Max. 16383.0 16383.0<
Scaled Min. F8:4 0.0<
Scaled Max. F8:5 30.0<
Output F8:3 0.0<
VACUUM SENSOR INPUT FOR SIMULATION`
LES
Less Than (A<B)
Source A F8:0 0.0<
Source B 0.0 0.0<
MEASURED VACUUM
MEASURED_VACUUM
MOV
Move
Source 0.0 0.0<
Dest F8:3 0.0<
VACUUM SENSOR INPUT FOR SIMULATION`
GRT
Greater Than (A>B)
Source A F8:0 0.0<
Source B 16383.0 16383.0<
MEASURED VACUUM
MEASURED_VACUUM
MOV
Move
Source 16383.0 16383.0<
Dest F8:3 0.0<


VACUUM SENSOR OUTPUT
FOR SIMULATION
0001
SCP
Scale w/Parameters
Input F8:1
0.0
Input Min. F8:4
0.0
Input Max. F8:5
30.0
Scaled Min. 0.0
0.0
Scaled Max. 16383.0
16383.0
Output F8:6
0.0
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
LES
Less Than (A<B)
Source A F8:1
0.0
Source B 0.0
0.0
VACUUM SENSOR OUTPUT
FOR SIMULATION
MOV
Move
Source 0.0
0.0
Dest F8:6
0.0
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
GRT
Greater Than (A>B)
Source A F8:1
0.0
Source B 30.0
30.0
VACUUM SENSOR OUTPUT
FOR SIMULATION
MOV
Move
Source 16383.0
16383.0
Dest F8:6
0.0
0002
END


0000
SCAN TIMER
TON
Timer On Delay
Timer T4:0
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
SCAN TIMER
T4:0
DN
ONS
B3:0
ONS
0
SCAN CYCLE TRIGGER
B3:0
1
0001
SCAN CYCLE TRIGGER
B3:0
1
SCAN ON
B3:0
2
SCAN ON
B3:0
2
SCAN DONE
B3:0
3


0002
SCAN ON
B3:0
2
MEASURED VACUUM
MEASURED_VACUUM
LIM
Limit Test
Low Lim F8:8 0.0<
Test F8:3 0.0<
High Lim F8:7 0.0<
ONS
B3:0
ONS
10
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
MOV
Move
Source 0.0 0.0<
Dest F8:1 0.0<
MEASURED VACUUM
MEASURED_VACUUM
GRT
Greater Than (A>B)
Source A F8:3 0.0<
Source B F8:11 0.0<
ONS
B3:0
ONS
4
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
SUB
Subtract
Source A 100.0 100.0<
Source B F8:1 0.0<
Dest F8:1 0.0<
MEASURED VACUUM
MEASURED_VACUUM
LIM
Limit Test
Low Lim F8:9 0.0<
Test F8:3 0.0<
High Lim F8:11 0.0<
ONS
B3:0
ONS
5
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
SUB
Subtract
Source A 60.0 60.0<
Source B F8:1 0.0<
Dest F8:1 0.0<
MEASURED VACUUM
MEASURED_VACUUM
LIM
Limit Test
Low Lim F8:7 0.0<
Test F8:3 0.0<
High Lim F8:9 0.0<
ONS
B3:0
ONS
6
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
SUB
Subtract
Source A 20.0 20.0<
Source B F8:1 0.0<
Dest F8:1 0.0<
MEASURED VACUUM
MEASURED_VACUUM
LIM
Limit Test
Low Lim F8:10 0.0<
Test F8:3 0.0<
High Lim F8:8 0.0<
ONS
B3:0
ONS
7
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
ADD
Add
Source A 20.0 20.0<
Source B F8:1 0.0<
Dest F8:1 0.0<


MEASURED VACUUM
MEASURED_VACUUM
LIM
Limit Test
Low Lim F8:12 0.0<
Test F8:3 0.0<
High Lim F8:10 0.0<
ONS
B3:0
ONS
8
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
ADD
Add
Source A 60.0 60.0<
Source B F8:1 0.0<
Dest F8:1 0.0<
MEASURED VACUUM
MEASURED_VACUUM
LES
Less Than (A<B)
Source A F8:3 0.0<
Source B F8:12 0.0<
ONS
B3:0
ONS
9
VACUUM PUMP OUTPUT
VACUUM_OUTPUT
ADD
Add
Source A 100.0 100.0<
Source B F8:1 0.0<
Dest F8:1 0.0<
ONS
B3:0
ONS
11
SCAN TIMER
T4:0
RES
SCAN DONE
B3:0
3

0003 END

0000

COMPARE VALUE
+4%

MUL
Multiply
Source A F8:2
15.0<
Source B 1.04
1.04<
Dest F8:7
0.0<

COMPARE VALUE
-4%

MUL
Multiply
Source A F8:2
15.0<
Source B 0.96
0.96<
Dest F8:8
0.0<

COMPARE VALUE
+15%

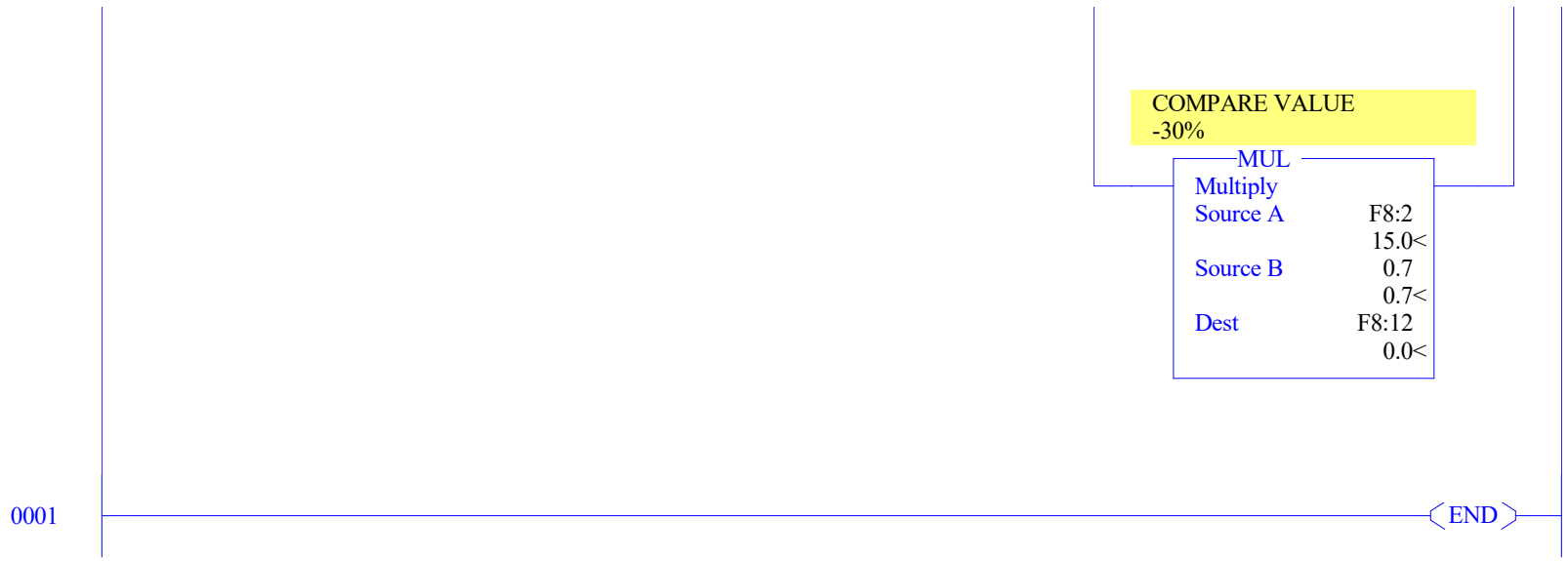
MUL
Multiply
Source A F8:2
15.0<
Source B 1.15
1.15<
Dest F8:9
0.0<

COMPARE VALUE
-15%

MUL
Multiply
Source A F8:2
15.0<
Source B 0.85
0.85<
Dest F8:10
0.0<

COMPARE VALUE
+30%

MUL
Multiply
Source A F8:2
15.0<
Source B 1.3
1.3<
Dest F8:11
0.0<


COMPARE VALUE
-30%
MUL
Multiply
Source A
F8:2
15.0<
Source B
0.7
0.7<
Dest
F8:12
0.0<
0001
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	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

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	

Data File T4 -- TIMER

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol)	Description
T4:0	0	0	0	1.0 sec	10	0	SCAN	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	0	0	0	0	0			

Data File F8 -- FLOAT

Offset	0	1	2	3	4
F8:0	0	0	15	0	0
F8:5	30	0	0	0	0
F8:10	0	0	0		

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV
	MOV	Global				
B3:0/0			ONS			
B3:0/1			SCAN CYCLE TRIGGER			
B3:0/2			SCAN ON			
B3:0/3			SCAN DONE			
B3:0/4			ONS			
B3:0/5			ONS			
B3:0/6			ONS			
B3:0/7			ONS			
B3:0/8			ONS			
B3:0/9			ONS			
B3:0/10			ONS			
B3:0/11			ONS			
F8:0			VACUUM SENSOR INPUT FOR SIMULATION`			
F8:1	VACUUM_OUTPUT	Global	VACUUM PUMP OUTPUT			
F8:2	VACUUM_SETPOINT	Global	VACUUM SETPOINT			
F8:3	MEASURED_VACUUM	Global	MEASURED VACUUM			
F8:4	SENSOR_RANGE_MIN	Global	VACUUM SENSOR RANGE MINIMUM			
F8:5	SENSOR_RANGE_MAX	Global	VACUUM SENSOR RANGE MAXIMUM			
F8:6			VACUUM SENSOR OUTPUT FOR SIMULATION			
F8:7			COMPARE VALUE +4%			
F8:8			COMPARE VALUE -4%			
F8:9			COMPARE VALUE +15%			
F8:10			COMPARE VALUE -15%			
F8:11			COMPARE VALUE +30%			
F8:12			COMPARE VALUE -30%			
N7:0						
N7:1						
N7:2						
N7:3						
N7:4						
N7:5						
N7:6						
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			

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV
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			
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			

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV
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			SCAN TIMER			
T4:0/DN			SCAN TIMER			
U:3			I/O			
U:4			CONTROL			
U:5			COMPUTE			

Instruction Comment Database

Address	Instruction	Description

Symbol Group Database

Group_Name Description