# RSLogix Micro Project Report



### Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 166 Instruction Words Used - 71 Data Table Words Used

Total Memory Left: 6490 Instruction Words Left

Program Files: 3

Data Files: 9

Program ID: 827e

## I/O Configuration

0	Bul.1763	MicroLogix	1100	Series B	
1					
2					
3					

#### 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
  IP Address: 0.0.0.0
  Subnet Mask: 0.0.0.0
  Gateway Address: 0.0.0.0
  Msg Connection Timeout (x 1mS):
  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

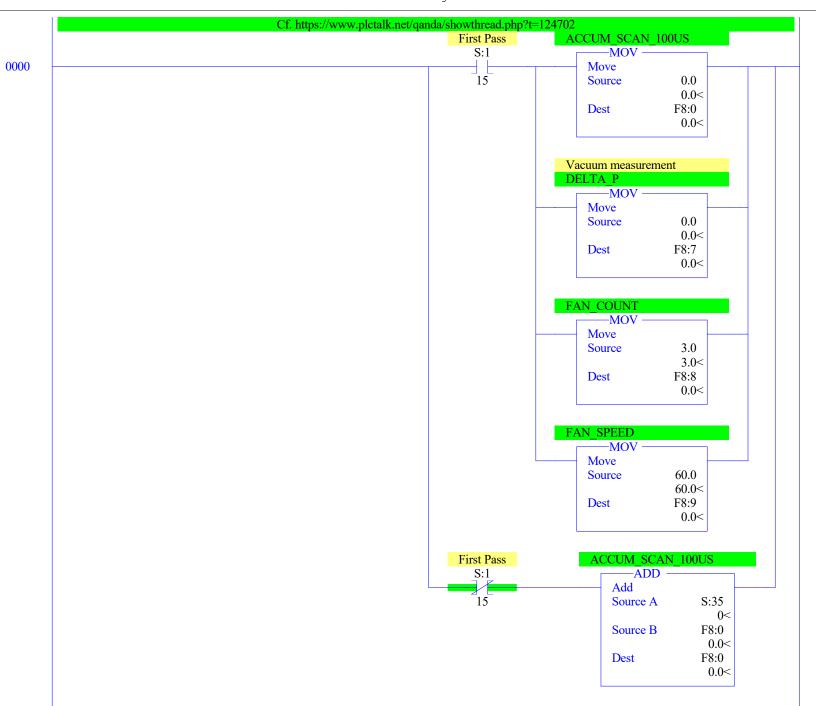
Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
	2	LADDER	3	No	444

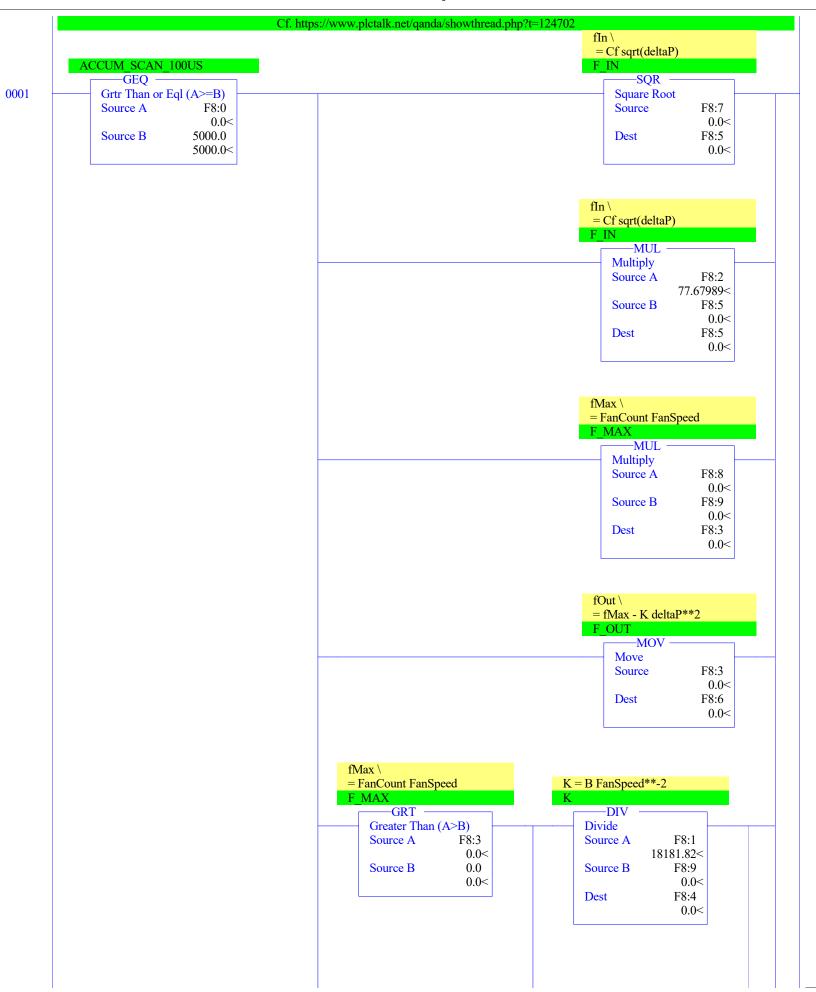
model\_pressure\_with\_fans.RSS

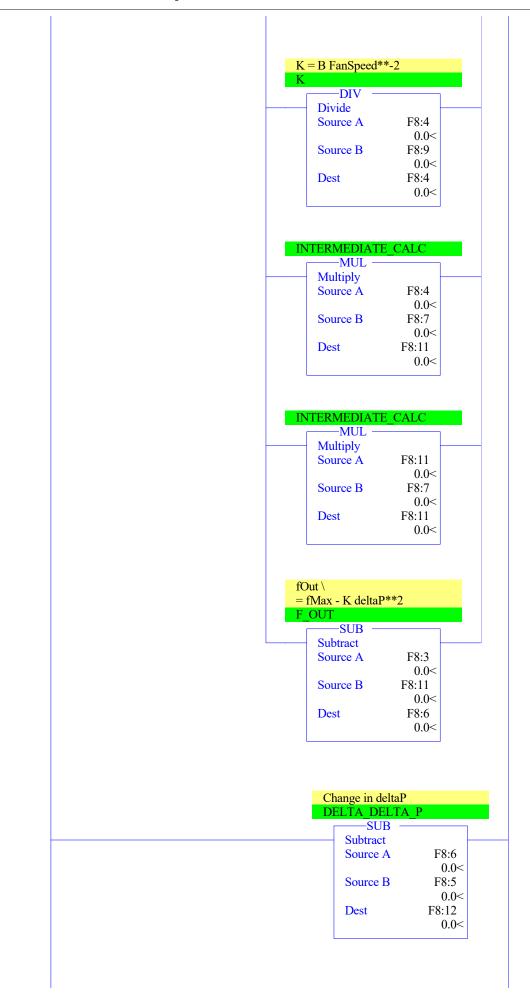
Data File List

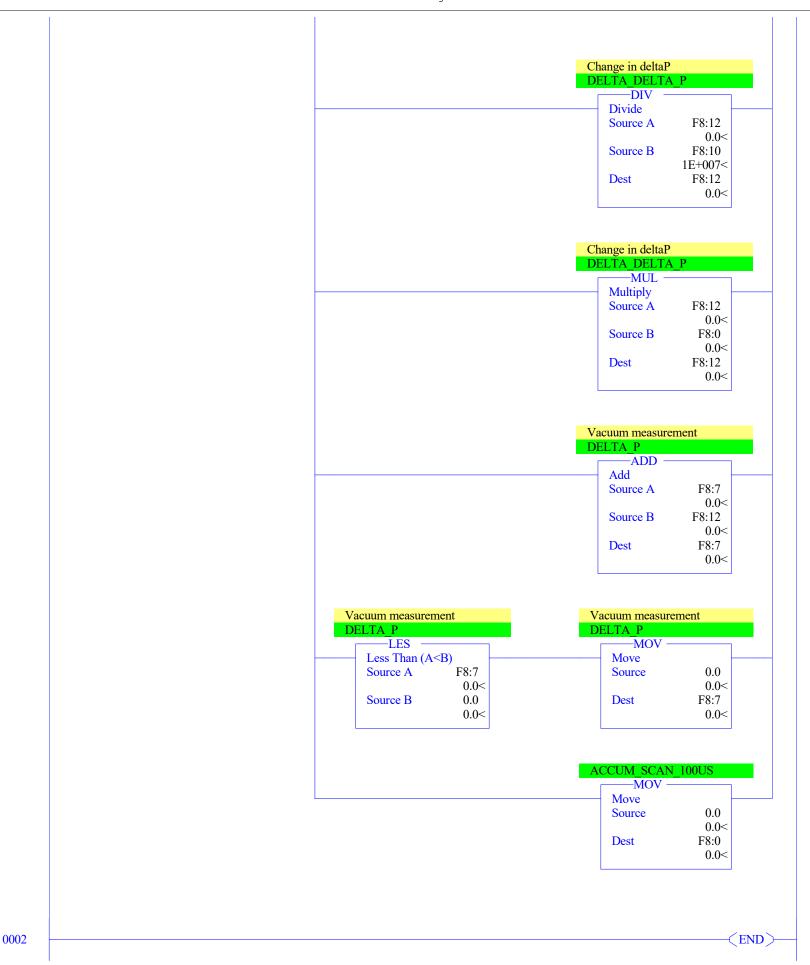
				-		-	-
Name	Number	Type	Scope	Debug	Words	Element	ts Last
		• 1	•				
OUTPUT	0	O	Global	No	12	4	O:3
INPUT	1	I	Global	No	18	6	I:5
STATUS	2	S	Global	No	0	66	S:65
BINARY	3	В	Global	No	1	1	B3:0
TIMER	4	T	Global	No	3	1	T4:0
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	1	1	N7:0
FLOAT	8	F	Global	No	30	15	F8:14

LAD 2 - --- Total Rungs in File = 3









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

```
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

OS Series S:58 = A

OS FRS S:59 =

Processor Catalog Number S:60 =

Processor Series S:61 = A

Processor FRN S:62 =

User Program Type S:63 = 8001h

Compiler Revision Number S:64 =

Compiler Revision Number S:64 =

Processor Series S:61 = A
```

#### 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 Overflow S:0/1 = 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 Major Error S:6 = 0h Major Error Halt S:1/13 = 0 Error Description: Control Register Error S:5/2 = 0 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:5/18 = 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
```

Data File S2 (hex) -- STATUS

#### 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

## Data File T4 -- TIMER

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

Data File C5 -- COUNTER

Offset CU CD DN OV UN UA PRE ACC (Symbol) Description
C5:0 0 0 0 0 0 1000 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

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	18181.82	77.67989	0	0
F8:5	0	0	0	0	0
F8:10	1e+07	0	0	0	0

## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV
F8:0 F8:1 F8:2 F8:3 F8:4 F8:5 F8:6 F8:7 F8:8 F8:9 F8:10 F8:11 F8:12 S:0 S:0/0 S:0/1 S:0/2 S:0/1 S:0/2 S:1/1 S:1/2 S:1/3 S:1/4 S:1/5 S:1/6	Symbol  FAN_COU ACCUM_SCAN_100US B C_F F_MAX K F_IN F_OUT DELTA_P FAN_COUNT FAN_SPEED V INTERMEDIATE_CALC DELTA_DELTA_P	Global Global Global Global Global Global Global Global Global Global Global Global	Constant for K calc  fMax \ = FanCount FanSpeed  K = B FanSpeed**-2  fIn \ = Cf sqrt(deltaP)  fOut \ = fMax - K deltaP**2  Vacuum measurement  Volume parameter  Change in deltaP  Arithmetic Flags  Processor Arithmetic Carry Flag  Processor Arithmetic Underflow/ Overflow Flag  Processor Arithmetic Sign Flag  Processor Mode Status/ Control  Processor Mode Bit 0  Processor Mode Bit 1  Processor Mode Bit 2  Processor Mode Bit 3  Processor Mode Bit 4  Forces Enabled  Forces Present	Sym Group	Dev. Code	ABV
S:1/7 S:1/8 S:1/9 S:1/10 S:1/11 S:1/12 S:1/13 S:1/14 S:1/15 S:2/0 S:2/1 S:2/2 S:2/3 S:2/3 S:2/4 S:2/5 S:2/6 S:2/7 S:2/15 S:3 S:4 S:5/0 S:5/2 S:5/4 S:5/8 S:5/9			Comms Active Fault Override at Powerup Startup Protection Fault Load Memory Module on Memory Error Load Memory Module Always Load Memory Module and RUN Major Error Halted Access Denied First Pass STI Pending STI Enabled STI Executing Index Addressing File Range Saved with Debug Single Step DH-485 Incoming Command Pending DH-485 Message Reply Pending DH-485 Outgoing Message Command Pending Comms Servicing Selection Current Scan Time/ Watchdog Scan Time Time Base Overflow Trap Control Register Error Major Err Detected Executing UserFault Routine MO-M1 Referenced on Disabled Slot Memory Module Boot Memory Module Bassword Mismatch			
S:5/10 S:5/11 S:6 S:7 S:8 S:9 S:10 S:11 S:12 S:13 S:14 S:15 S:16 S:17 S:18 S:19 S:20 S:21 S:22 S:23 S:24 S:25 S:24 S:25 S:26 S:27 S:28 S:29 S:30 S:31 S:31 S:32 S:33 S:33 S:33			STI Overflow Battery Low Major Error Fault Code Suspend Code Suspend File Active Nodes Active Nodes Active Nodes I/O Slot Enables I/O Slot Enables Math Register Math Register Math Register Math Register Math Single Step Rung Debug Single Step File Debug Single Step Breakpoint Rung Debug Single Step Breakpoint File Debug Fault/ Powerdown Rung Debug Fault/ Powerdown File Maximum Observed Scan Time Average Scan Time Index Register I/O Interrupt Pending I/O Interrupt Enabled User Fault Routine File Number STI Setpoint STI File Number I/O Interrupt Executing Extended Proc Status Control Word Incoming Command Pending			

## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev.	Code	ABV
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 S:33/7			Message Servicing Selection Channel 0 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 S:33/15			DTR Control Bit 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 S:36/9			DII Lost 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 S:43			Clock Calendar Seconds				
S:44			STI Interrupt Time 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 S:51			Processor Catalog Number				
S:52			Discrete Input Interrupt- Return Number 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 S:61			Operating System FRN 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 O Active Nodes				
S:68 S:69			Channel 0 Active Nodes Channel 0 Active Nodes				
s:70			Channel O Active Nodes				
S:71			Channel O Active Nodes				
S:72			Channel O Active Nodes				
S:73			Channel O Active Nodes				
S:74			Channel O Active Nodes				
S:75 S:76			Channel O Active Nodes				
S:76 S:77			Channel 0 Active Nodes Channel 0 Active Nodes				
S:78			Channel O Active Nodes				
S:79			Channel O Active Nodes				
S:80			Channel O Active Nodes				
S:81			Channel O Active Nodes				
S:82			Channel O Active Nodes				
S:83			DH+ Active Nodes				
S:84 S:85			DH+ Active Nodes DH+ Active Nodes				
S:86			DH+ Active Nodes DH+ Active Nodes				

Address Instruction Description

Group\_Name Description