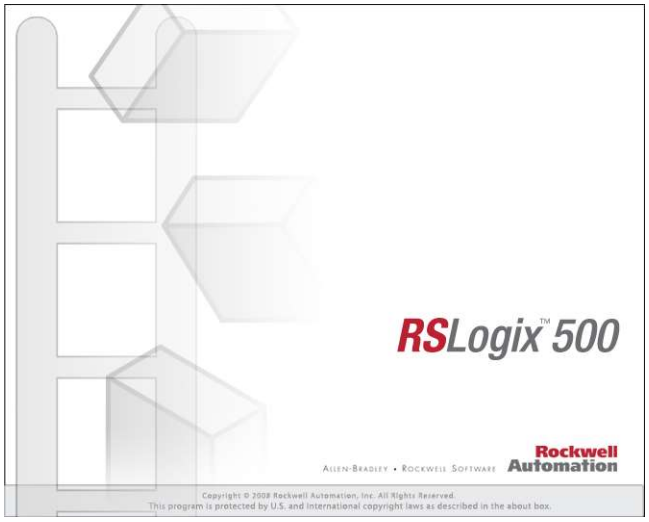
RSLogix Micro Project Report



Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 318 Instruction Words Used - 579 Data Table Words Used

Total Memory Left: 6338 Instruction Words Left

Program Files: 3

Data Files: 13

Program ID: 27a0

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: 00:0F:73:01:72:04
   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): 10
   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:

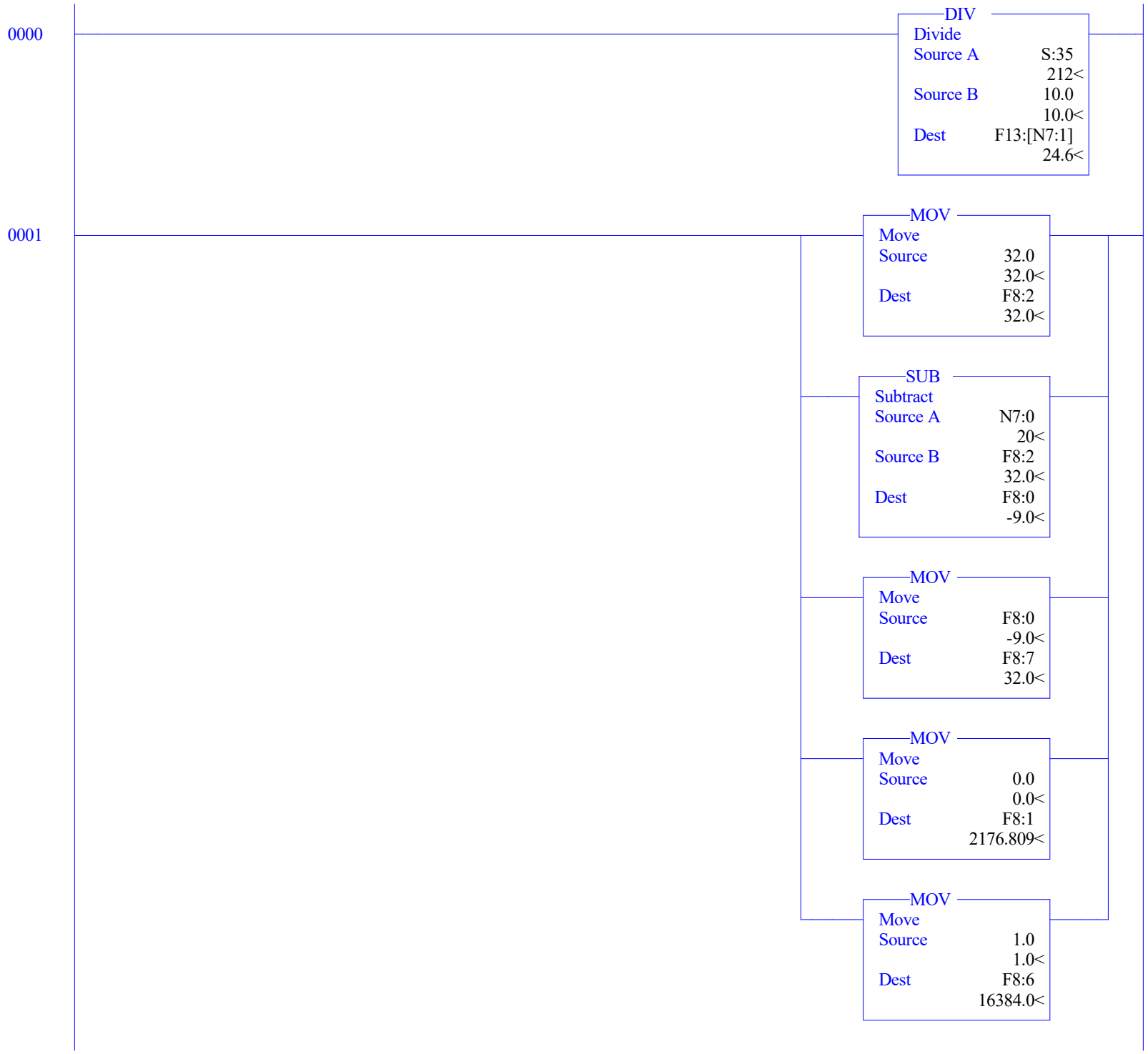
Program File List

Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
	2	LADDER	5	No	583

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	3	3	N7:2
FLOAT	8	F	Global	No	16	8	F8:7
	10	F	Global	No	130	65	F10:64
	11	F	Global	No	130	65	F11:64
	12	F	Global	No	130	65	F12:64
	13	F	Global	No	130	65	F13:64

LAD 2 - --- Total Rungs in File = 5



0002

Q2:0
LBL

LES
Less Than (A<B)
Source A F8:6
16384.0<
Source B 1048576.0
1048576.0<

LES
Less Than (A<B)
Source A F8:7
32.0<
Source B F8:2
32.0<

SUB
Subtract
Source A F8:2
32.0<
Source B F8:7
32.0<
Dest F8:3
1.907349E-006<

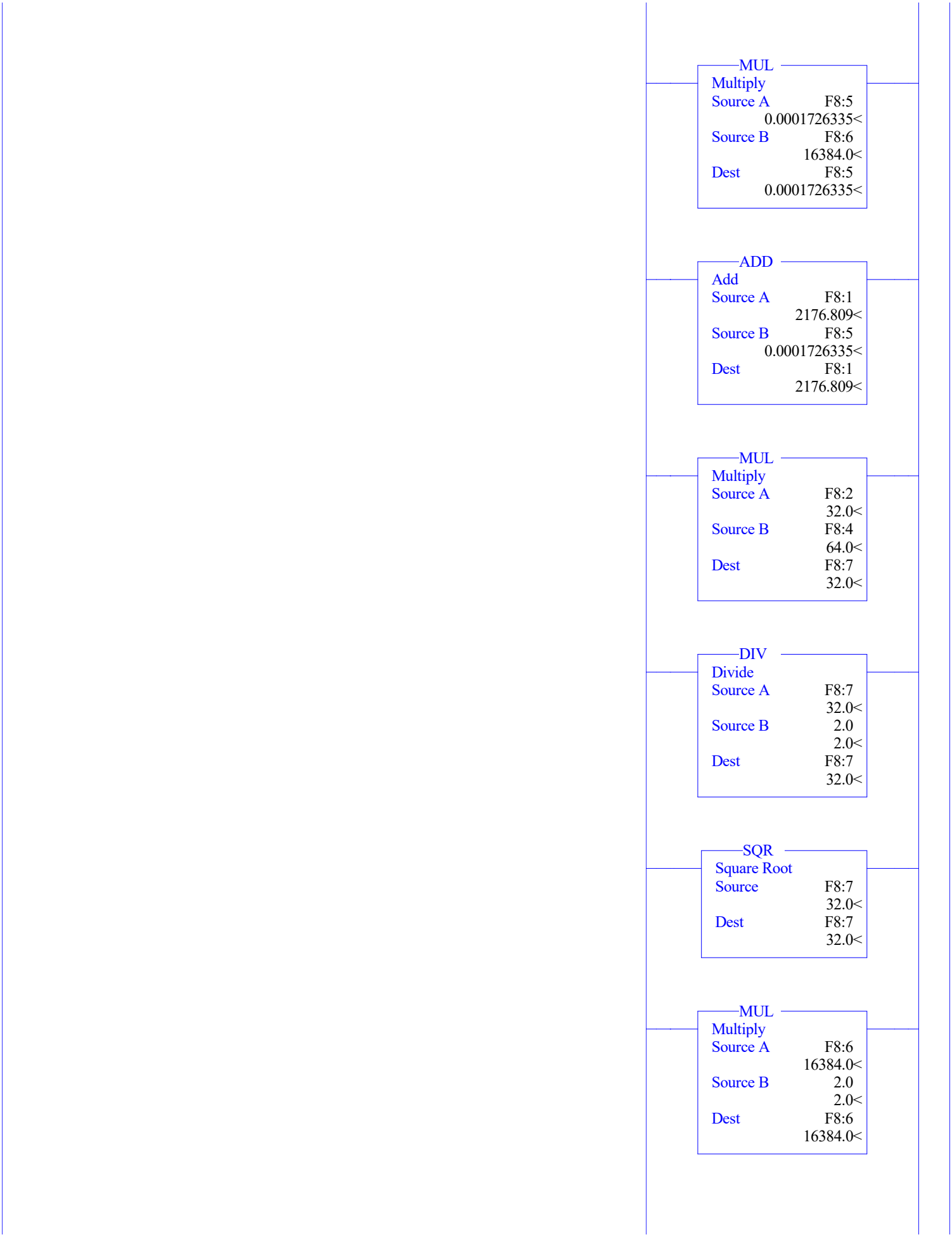
ADD
Add
Source A F8:2
32.0<
Source B F8:7
32.0<
Dest F8:4
64.0<

MUL
Multiply
Source A F8:3
1.907349E-006<
Source B F8:3
1.907349E-006<
Dest F8:5
0.0001726335<

MUL
Multiply
Source A F8:5
0.0001726335<
Source B F8:3
1.907349E-006<
Dest F8:5
0.0001726335<

MUL
Multiply
Source A F8:5
0.0001726335<
Source B F8:4
64.0<
Dest F8:5
0.0001726335<

SQR
Square Root
Source F8:5
0.0001726335<
Dest F8:5
0.0001726335<


MUL
Multiply
Source A F8:5
0.0001726335<
Source B F8:6
16384.0<
Dest F8:5
0.0001726335<
ADD
Add
Source A F8:1
2176.809<
Source B F8:5
0.0001726335<
Dest F8:1
2176.809<
MUL
Multiply
Source A F8:2
32.0<
Source B F8:4
64.0<
Dest F8:7
32.0<
DIV
Divide
Source A F8:7
32.0<
Source B 2.0
2.0<
Dest F8:7
32.0<
SQR
Square Root
Source F8:7
32.0<
Dest F8:7
32.0<
MUL
Multiply
Source A F8:6
16384.0<
Source B 2.0
2.0<
Dest F8:6
16384.0<

LAD 2 - --- Total Rungs in File = 5

0003

DIV
Divide
Source A F8:0
-9.0<
Source B 32.0
32.0<
Dest F12:[N7:0]
-0.375<

DIV
Divide
Source A F8:1
2176.809<
Source B 1024.0
1024.0<
Dest F10:[N7:0]
2.302827<

SUB
Subtract
Source A 64
64<
Source B N7:0
20<
Dest N7:2
45<

ADD
Add
Source A F10:[N7:0]
2.302827<
Source B F10:[N7:2]
0.7812343<
Dest F11:[N7:0]
3.141593<

MOV
Move
Source N7:0
20<
Dest N7:1
19<

ADD
Add
Source A N7:0
20<
Source B 1
1<
Dest N7:0
20<

GRT
Greater Than (A>B)
Source A N7:0
20<
Source B 64
64<

MOV
Move
Source 0
0<
Dest N7:0
20<

0004

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	1	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	1	0	1	Bul.1763	MicroLogix 1100 Series B-Analog

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 = 0010-1000-0000-0100

Proc

OS Catalog Number S:57 = 1100
OS Series S:58 = B
OS FRS S:59 =
Processor Catalog Number S:60 =
Processor Series S:61 = A
Processor FRN S:62 =
User Program Type S:63 = 8108h
Compiler Revision Number S:64 =

Scan Times

Maximum (x10 ms) S:22 = 269
Watchdog (x10 ms) S:3 (high byte) = 10
Last 100 uSec Scan Time S:35 = 212
Scan Toggle Bit S:33/9 = 0

Math

Math Overflow Selected S:2/14 = 0
Overflow Trap S:5/0 = 0
Carry S:0/0 = 0
Overflow S:0/1 = 0
Zero Bit S:0/2 = 0
Sign Bit S:0/3 = 0
Math Register (lo word) S:13 = 0
Math Register (high word) S:14-S:13 = 0
Math Register (32 Bit) S:14-S:13 = 0

Chan 0

Processor Mode S:1/0- S:1/4 = Remote Run
Node Address S:15 (low byte) = 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
Outgoing Msg Cmd Pending S:33/2 = 0

Debug

Suspend Code S:7 = 0
Suspend File S:8 = 0

Errors

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

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	.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	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	20	19	45							

Data File F8 -- FLOAT

Offset	0	1	2	3	4
F8:0	-9	2176.809	32	1.907349e-06	64
F8:5	0.0001726335	16384	32		

Data File F10

Offset	0	1	2	3	4
F10:0	3.141593	3.131225	3.112408	3.088234	3.05984
F10:5	3.0279	2.99288	2.955132	2.914936	2.872523
F10:10	2.828089	2.781803	2.733819	2.684269	2.633277
F10:15	2.580954	2.527408	2.472733	2.417021	2.360359
F10:20	2.302827	2.244507	2.18547	2.12579	2.065539
F10:25	2.004782	1.943587	1.88202	1.820144	1.758022
F10:30	1.695716	1.633286	1.570796	1.508307	1.445878
F10:35	1.383571	1.321449	1.259573	1.198005	1.136811
F10:40	1.076055	1.015802	0.9561235	0.8970866	0.8387651
F10:45	0.7812343	0.7245719	0.66886	0.6141849	0.560638
F10:50	0.5083165	0.4573245	0.4077745	0.3597894	0.3135038
F10:55	0.2690694	0.226656	0.1864601	0.1487126	0.113693
F10:60	0.08175293	0.05335905	0.02918507	0.01036771	0

Data File F11

Offset	0	1	2	3	4
F11:0	3.141593	3.141593	3.141593	3.141593	3.141593
F11:5	3.141593	3.141593	3.141593	3.141592	3.141593
F11:10	3.141593	3.141593	3.141593	3.141593	3.141594
F11:15	3.141592	3.141593	3.141593	3.141593	3.141594
F11:20	3.141593	3.141593	3.141593	3.141592	3.141593
F11:25	3.141594	3.141593	3.141593	3.141593	3.141593
F11:30	3.141593	3.141593	3.141593	3.141593	3.141593
F11:35	3.141593	3.141593	3.141593	3.141593	3.141594
F11:40	3.141593	3.141592	3.141593	3.141593	3.141593
F11:45	3.141594	3.141593	3.141593	3.141593	3.141592
F11:50	3.141594	3.141593	3.141593	3.141593	3.141593
F11:55	3.141593	3.141592	3.141593	3.141593	3.141593
F11:60	3.141593	3.141593	3.141593	3.141593	3.141593

Data File F12

Offset	0	1	2	3	4
F12:0	-1	-0.96875	-0.9375	-0.90625	-0.875
F12:5	-0.84375	-0.8125	-0.78125	-0.75	-0.71875
F12:10	-0.6875	-0.65625	-0.625	-0.59375	-0.5625
F12:15	-0.53125	-0.5	-0.46875	-0.4375	-0.40625
F12:20	-0.375	-0.34375	-0.3125	-0.28125	-0.25
F12:25	-0.21875	-0.1875	-0.15625	-0.125	-0.09375
F12:30	-0.0625	-0.03125	0	0.03125	0.0625
F12:35	0.09375	0.125	0.15625	0.1875	0.21875
F12:40	0.25	0.28125	0.3125	0.34375	0.375
F12:45	0.40625	0.4375	0.46875	0.5	0.53125
F12:50	0.5625	0.59375	0.625	0.65625	0.6875
F12:55	0.71875	0.75	0.78125	0.8125	0.84375
F12:60	0.875	0.90625	0.9375	0.96875	1

Data File F13

Offset	0	1	2	3	4
F13:0	26.8	24.5	24.7	24.8	26.6
F13:5	24.6	24.6	24.8	26.6	24.5
F13:10	24.6	24.7	24.6	26.6	24.6
F13:15	24.7	24.7	26.6	24.7	24.6
F13:20	24.6	26.6	24.9	24.5	24.8
F13:25	26.6	24.6	24.6	24.8	26.6
F13:30	24.7	23	23.1	23.9	24.2
F13:35	22.8	23.2	24	24	23.1
F13:40	23.1	23.8	24.1	22.8	23.2
F13:45	24.1	23.9	22.9	23.4	23.7
F13:50	23	24.2	23.1	23.9	21.4
F13:55	22.4	21.5	22.2	21.3	21.2
F13:60	23	22.2	19.7	19.6	1.9

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
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				
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				

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
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				

Instruction Comment Database

Address	Instruction	Description

Symbol Group Database

Group_Name Description