



Save File Name: E:\Projects\OceanAcidification\DIC analyzer\Software\TCO2_Li7000_v1.31.vee

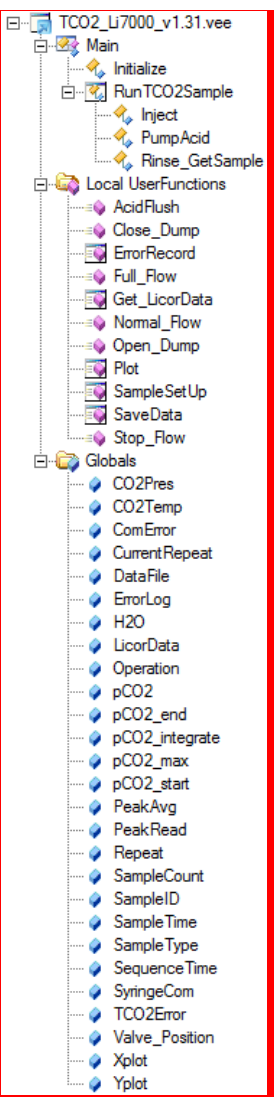
Save File Last Revised: Tue Oct 19 13:04:52 2010

Save File Format: 7.0

Agilent VEE Pro Revision: 9.2.13522.0

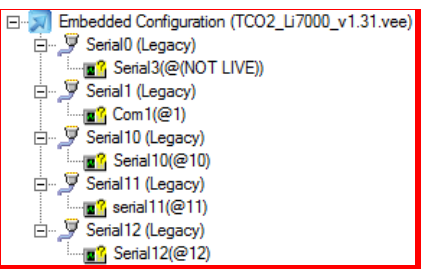
Execution mode: VEE 6 Execution Mode

Program Explorer Overview

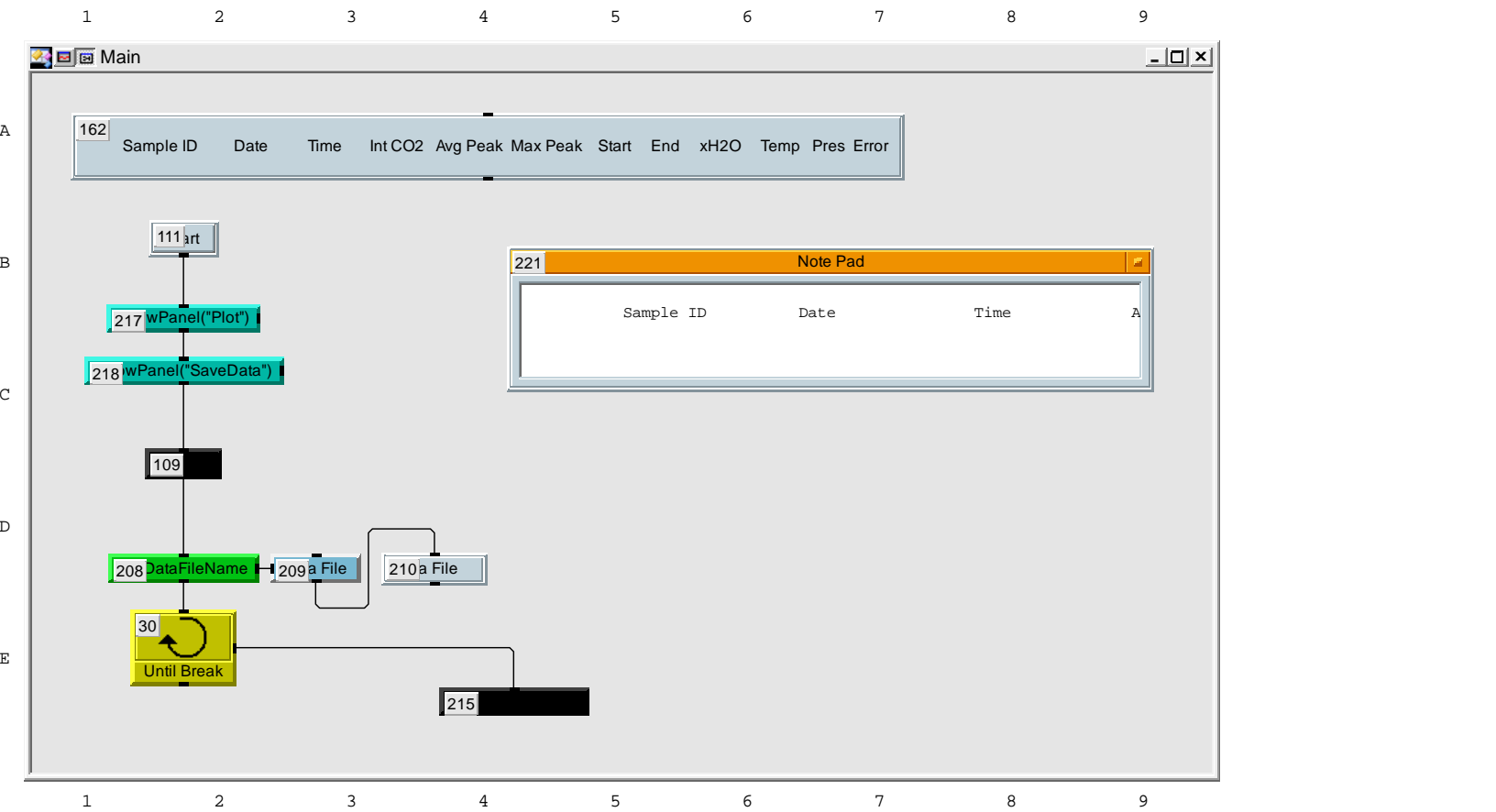


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I/O Configuration



Main (M): Detail View, Total Objects: 11



Main "Main"

30 at: E2 Until Break "Until Break"

ObjectIndex: M.30

Declared Scope: Local to Context

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

109 at: C2 UserObject "Initialize"

111 at: B2 Start "Start"

ObjectIndex: M.111

Declared Scope: Local to Context

ShowTitleBar: false

ShowTerminals: false

ShowIconTitle: true

162 at: A4 Label "

ObjectIndex: M.162

Declared Scope: Local to Context

Label: "Sample IDDateTimeInt CO2Avg PeakMax PeakStartEndxH2OTempPresError"

ShowTitleBar: false

ShowTerminals: false

ShowIconTitle: true

208 at: D2 Get Variable "GetDataFileName"

ObjectIndex: M.208

Declared Scope: Local to Context

Global Name: "DataFile"

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

209 at: D3 AlphaNumeric "Data File" is added to panel

ObjectIndex: M.209

Declared Scope: Local to Context

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

210 at: D4 Label "Data File" is added to panel

ObjectIndex: M.210

Declared Scope: Local to Context

Label: "Data File"

ShowTitleBar: false

ShowTerminals: false

res Error"

r"

```
└─ ShowIconTitle: true
215 at: E4  UserObject "RunTCO2Sample"
217 at: B2  Formula "ShowPanel("Plot")"
└─ ObjectIndex: M.217
└─ Declared Scope: Local to Context
└─ Formula: ShowPanel("Plot", 0, 0, 880, 340)
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
218 at: C2  Formula "ShowPanel("SaveData")"
└─ ObjectIndex: M.218
└─ Declared Scope: Local to Context
└─ Formula: ShowPanel("SaveData", 0, 400)
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
221 at: B7  Note Pad "Note Pad" is added to panel
└─ ObjectIndex: M.221
└─ Declared Scope: Local to Context
└─ Note Contents: 2 lines.
└─
└─
└─ Sample ID      Date      Time      Area      Average      Maximum      Start      CO2 Peak      End      Water
└─ ShowTitleBar: true
└─ ShowTerminals: false
└─ ShowIconTitle: true
```

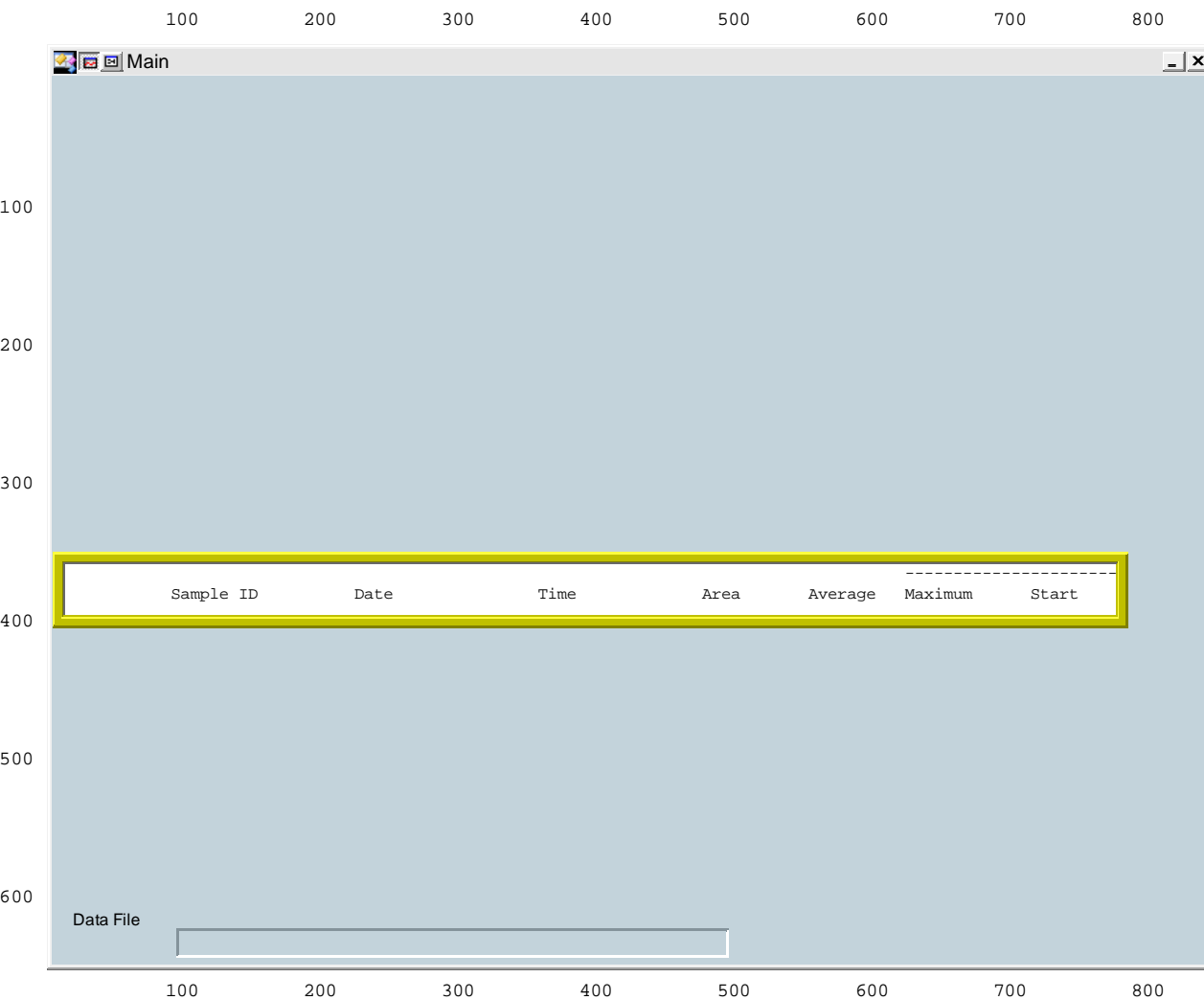
Temp.

Press.

Error

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Main: Panel View



PanelView "Main" (w=841, h=644)

```
210: Label "Data File" (x=10, y=600) (w=70, h=25)
209: AlphaNumeric "Data File" (x=90, y=618) (w=400, h=21)
221: Note Pad "Note Pad" (x=0, y=345) (w=780, h=55)
```

AcidFlush (F19): Detail View, Total Objects: 3

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

AcidFlush

7Start

19For Count10

18Serial12 (@ 12)

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

UserFunction "AcidFlush"

7 at: A1 Start "Start"

ObjectIndex: F19.7

Declared Scope: Local to Context

ShowTitleBar: false

ShowTerminals: false

ShowIconTitle: true

18 at: C3 Direct I/O "Serial12 (@ 12)"

ObjectIndex: F19.18

Declared Scope: Local to Context

Transactions: 8 lines.

WRITE BYTE 254

WRITE BYTE 9

WAIT INTERVAL:.5

EXECUTE RESET

WRITE BYTE 254

WRITE BYTE 1

WAIT INTERVAL:.5

EXECUTE RESET

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

19 at: B1 For Count "For Count"

ObjectIndex: F19.19

Declared Scope: Local to Context

Count: 10

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

Close_Dump (F24): Detail View, Total Objects: 2

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

Close_Dump

1Start

0Serial12 (@ 12)

WRITE BYTE 254

WRITE BYTE 0

< Double-Click to Add Transaction >

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

UserFunction "Close_Dump"

0 at: C2 Direct I/O "Serial12 (@ 12)"

ObjectIndex: F24.0

Declared Scope: Local to Context

Transactions: 2 lines.

WRITE BYTE 254

WRITE BYTE 0

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

1 at: A2 Start "Start"

ObjectIndex: F24.1

Declared Scope: Local to Context

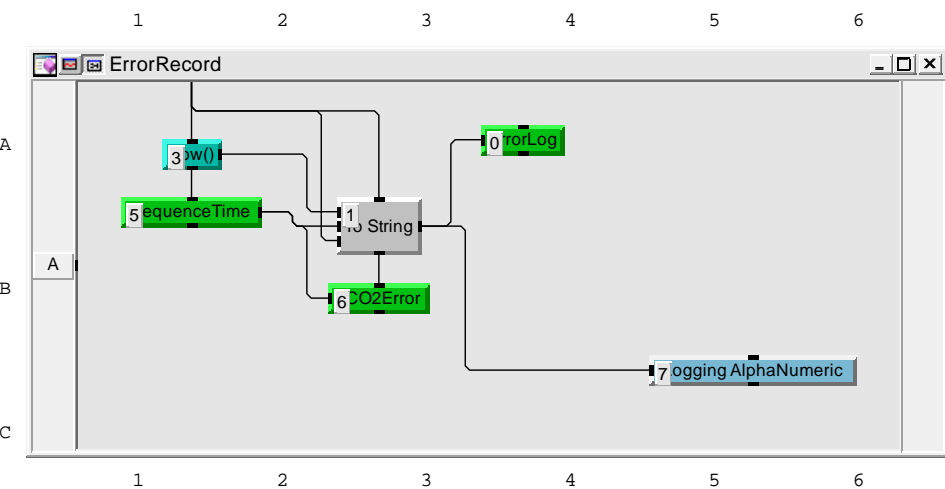
ShowTitleBar: false

ShowTerminals: false

ShowIconTitle: true

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ErrorRecord (F18): Detail View, Total Objects: 6



```

UserFunction "ErrorRecord"
0 at: A4 Set Variable "ErrorLog"
  ObjectIndex: F18.0
  Declared Scope: Local to Context
  Global Name: "ErrorLog"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
1 at: A3 To String "To String"
  ObjectIndex: F18.1
  Declared Scope: Local to Context
  Transactions: 5 lines.
    WRITE TEXT a DATE:DMY TIME:HMS:H24
    WRITE TEXT " , " STR
    WRITE TEXT b
    WRITE TEXT " , " STR
    WRITE TEXT c EOL
  MultiFieldFormat: (...) Syntax
  ArrayFormat: Block
  ArraySeparator: " "
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
3 at: A1 Formula "now()"
  ObjectIndex: F18.3
  Declared Scope: Local to Context
  Formula: now()
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
5 at: A1 Get Variable "SequenceTime"
  ObjectIndex: F18.5
  Declared Scope: Local to Context
  Global Name: "SequenceTime"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
6 at: B3 Set Variable "TCO2Error"
  ObjectIndex: F18.6
  Declared Scope: Local to Context
  Global Name: "TCO2Error"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
7 at: B5 Logging AlphaNumeric "Logging AlphaNumeric" is added to panel
  ObjectIndex: F18.7
  Declared Scope: Local to Context
  Buffer Size: 256
  ShowTitleBar: true
  ShowTerminals: false
  ShowIconTitle: true

```


ErrorRecord: Panel View

100200300

ErrorRecord

Logging AlphaNumeric

100200300

PanelView "ErrorRecord" (w=320, h=232)

└ 7: Logging AlphaNumeric "Logging AlphaNumeric" (x=0, y=0) (w=319, h=229)

Full_Flow (F22): Detail View, Total Objects: 3

123456

Full_Flow

2Start

0Serial12 (@ 12)

WRITE BYTE 254
WRITE BYTE 3
WRITE BYTE 254
WRITE BYTE 10

3Note Pad

Turn off relay #4
Turn on relay #3

123456

UserFunction "Full_Flow"

└ 0 at: B2 Direct I/O "Serial12 (@ 12)"

└ ObjectIndex: F22.0

└ Declared Scope: Local to Context

└ Transactions: 4 lines.

└ WRITE BYTE 254

└ WRITE BYTE 3

└ WRITE BYTE 254

└ WRITE BYTE 10

└ ShowTitleBar: true

└ ShowTerminals: true

└ ShowIconTitle: true

└ 2 at: A2 Start "Start"

└ ObjectIndex: F22.2

└ Declared Scope: Local to Context

└ ShowTitleBar: false

└ ShowTerminals: false

└ ShowIconTitle: true

└ 3 at: B5 Note Pad "Note Pad"

└ ObjectIndex: F22.3

└ Declared Scope: Local to Context

└ Note Contents: 2 lines.

└ Turn off relay #4

└ Turn on relay #3

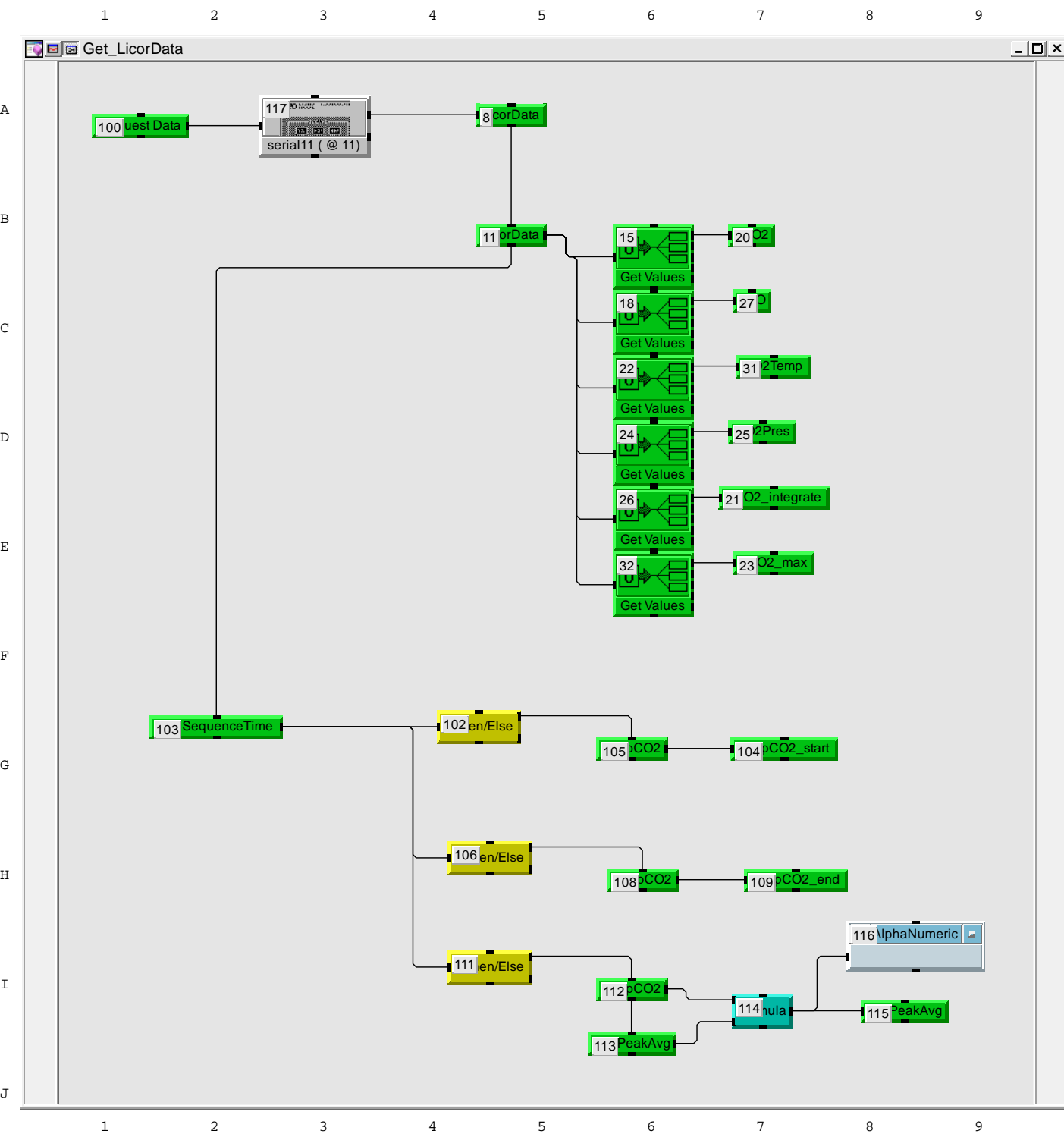
└ ShowTitleBar: true

└ ShowTerminals: false

└ ShowIconTitle: true

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Get_LicorData (F14): Detail View, Total Objects: 29



```

UserFunction  "Get_LicorData"
- 8 at: A5 Set Variable "LicorData"
  | ObjectIndex: F14.8
  | Declared Scope: Local to Context
  | Global Name: "LicorData"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 11 at: B5 Get Variable "LicorData"
  | ObjectIndex: F14.11
  | Declared Scope: Local to Context
  | Global Name: "LicorData"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 15 at: B6 Get Values "Get Values"
  | ObjectIndex: F14.15
  | Declared Scope: Local to Context

```

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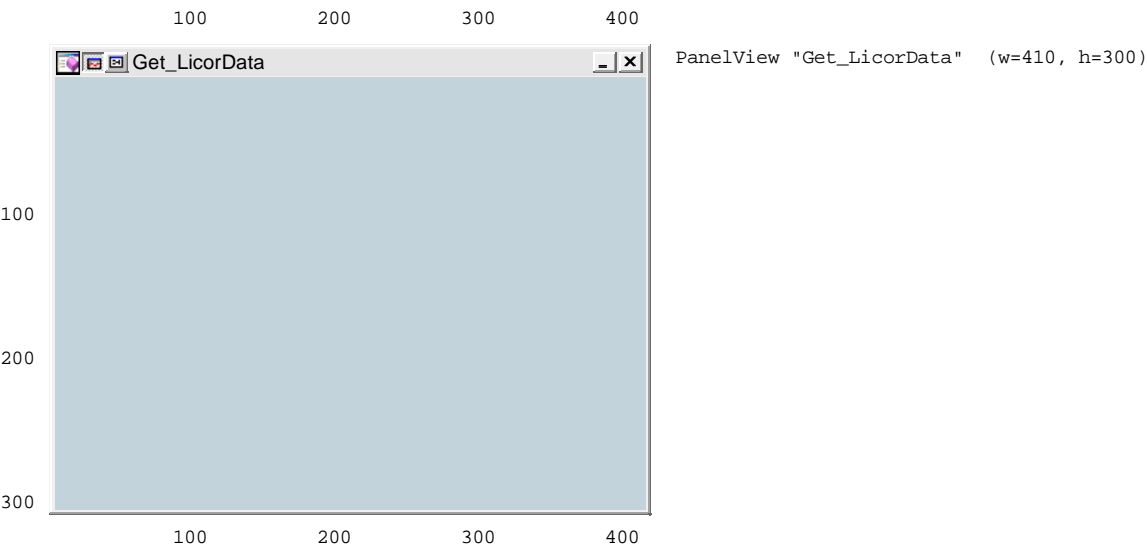
```
-
| Formula: Ary[1]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 18 at: C6  Get Values "Get Values"
| ObjectIndex: F14.18
| Declared Scope: Local to Context
| Formula: Ary[2]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 20 at: B7  Set Variable "pCO2"
| ObjectIndex: F14.20
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 21 at: D7  Set Variable "pCO2_integrate"
| ObjectIndex: F14.21
| Declared Scope: Local to Context
| Global Name: "pCO2_integrate"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 22 at: C6  Get Values "Get Values"
| ObjectIndex: F14.22
| Declared Scope: Local to Context
| Formula: Ary[6]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 23 at: E7  Set Variable "pCO2_max"
| ObjectIndex: F14.23
| Declared Scope: Local to Context
| Global Name: "pCO2_max"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 24 at: D6  Get Values "Get Values"
| ObjectIndex: F14.24
| Declared Scope: Local to Context
| Formula: Ary[5]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 25 at: D7  Set Variable "CO2Pres"
| ObjectIndex: F14.25
| Declared Scope: Local to Context
| Global Name: "CO2Pres"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 26 at: E6  Get Values "Get Values"
| ObjectIndex: F14.26
| Declared Scope: Local to Context
| Formula: Ary[3]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 27 at: C7  Set Variable "H2O"
| ObjectIndex: F14.27
| Declared Scope: Local to Context
| Global Name: "H2O"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 31 at: C7  Set Variable "CO2Temp"
| ObjectIndex: F14.31
| Declared Scope: Local to Context
| Global Name: "CO2Temp"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
```

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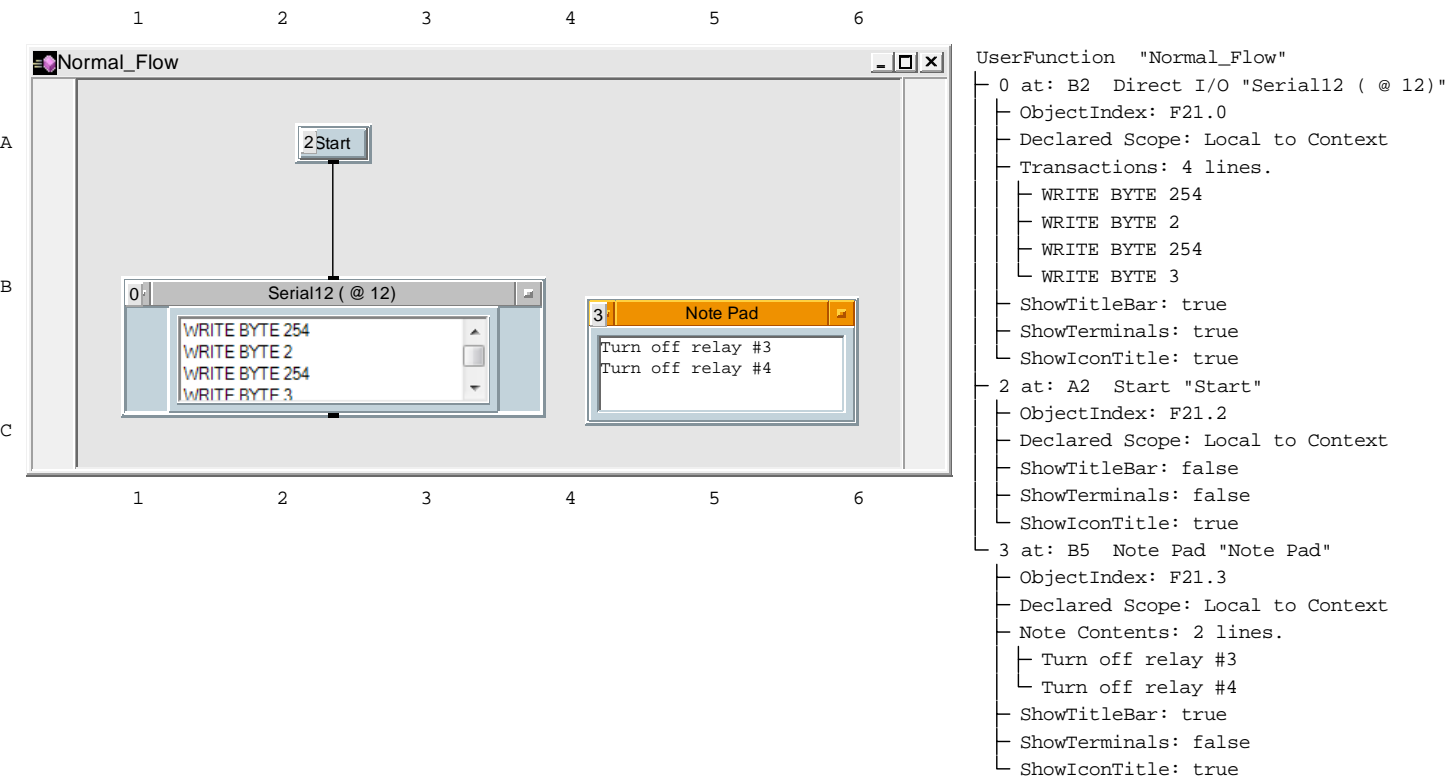
```
- 32 at: E6  Get Values "Get Values"
| ObjectIndex: F14.32
| Declared Scope: Local to Context
| Formula: Ary[4]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 100 at: A1  Text Constant "Request Data"
| ObjectIndex: F14.100
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
- 102 at: G4  If/Then/Else "If/Then/Else"
| ObjectIndex: F14.102
| Declared Scope: Local to Context
| If/Else cases: A==75
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 103 at: G2  Get Variable "Get SequenceTime"
| ObjectIndex: F14.103
| Declared Scope: Local to Context
| Global Name: "SequenceTime"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 104 at: G7  Set Variable "Set pCO2_start"
| ObjectIndex: F14.104
| Declared Scope: Local to Context
| Global Name: "pCO2_start"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 105 at: G6  Get Variable "Get pCO2"
| ObjectIndex: F14.105
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 106 at: H4  If/Then/Else "If/Then/Else"
| ObjectIndex: F14.106
| Declared Scope: Local to Context
| If/Else cases: A==159
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 108 at: H6  Get Variable "Get pCO2"
| ObjectIndex: F14.108
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 109 at: H7  Set Variable "Set pCO2_end"
| ObjectIndex: F14.109
| Declared Scope: Local to Context
| Global Name: "pCO2_end"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 111 at: I4  If/Then/Else "If/Then/Else"
| ObjectIndex: F14.111
| Declared Scope: Local to Context
| If/Else cases: 75<A AND A<159
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 112 at: I6  Get Variable "Get pCO2"
| ObjectIndex: F14.112
```

```
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
113 at: I6 Get Variable "Get PeakAvg"
| ObjectIndex: F14.113
| Declared Scope: Local to Context
| Global Name: "PeakAvg"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
114 at: I7 Formula "Formula"
| ObjectIndex: F14.114
| Declared Scope: Local to Context
| Formula: A+B
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
115 at: I8 Set Variable "Set PeakAvg"
| ObjectIndex: F14.115
| Declared Scope: Local to Context
| Global Name: "PeakAvg"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
116 at: I8 AlphaNumeric "AlphaNumeric"
| ObjectIndex: F14.116
| Declared Scope: Local to Context
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
117 at: A3 Direct I/O "serial11 ( @ 11)"
| ObjectIndex: F14.117
| Declared Scope: Local to Context
| Transactions: 3 lines.
|   WRITE TEXT a STR EOL
|   READ TEXT y STR
|   READ TEXT x REAL64 ARRAY:7
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
```

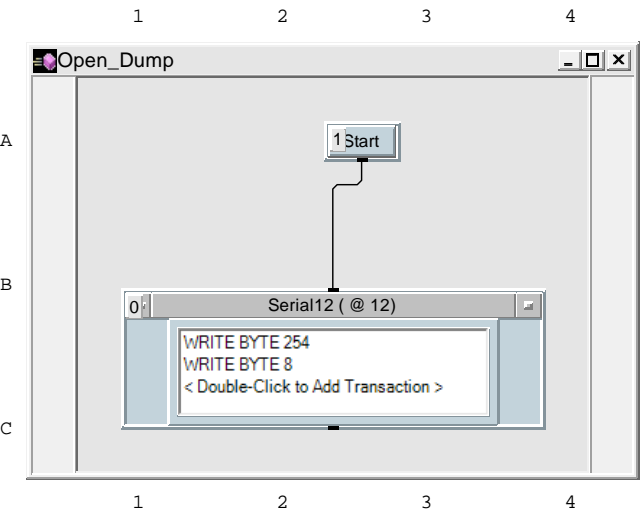
Get_LicorData: Panel View



Normal_Flow (F21): Detail View, Total Objects: 3



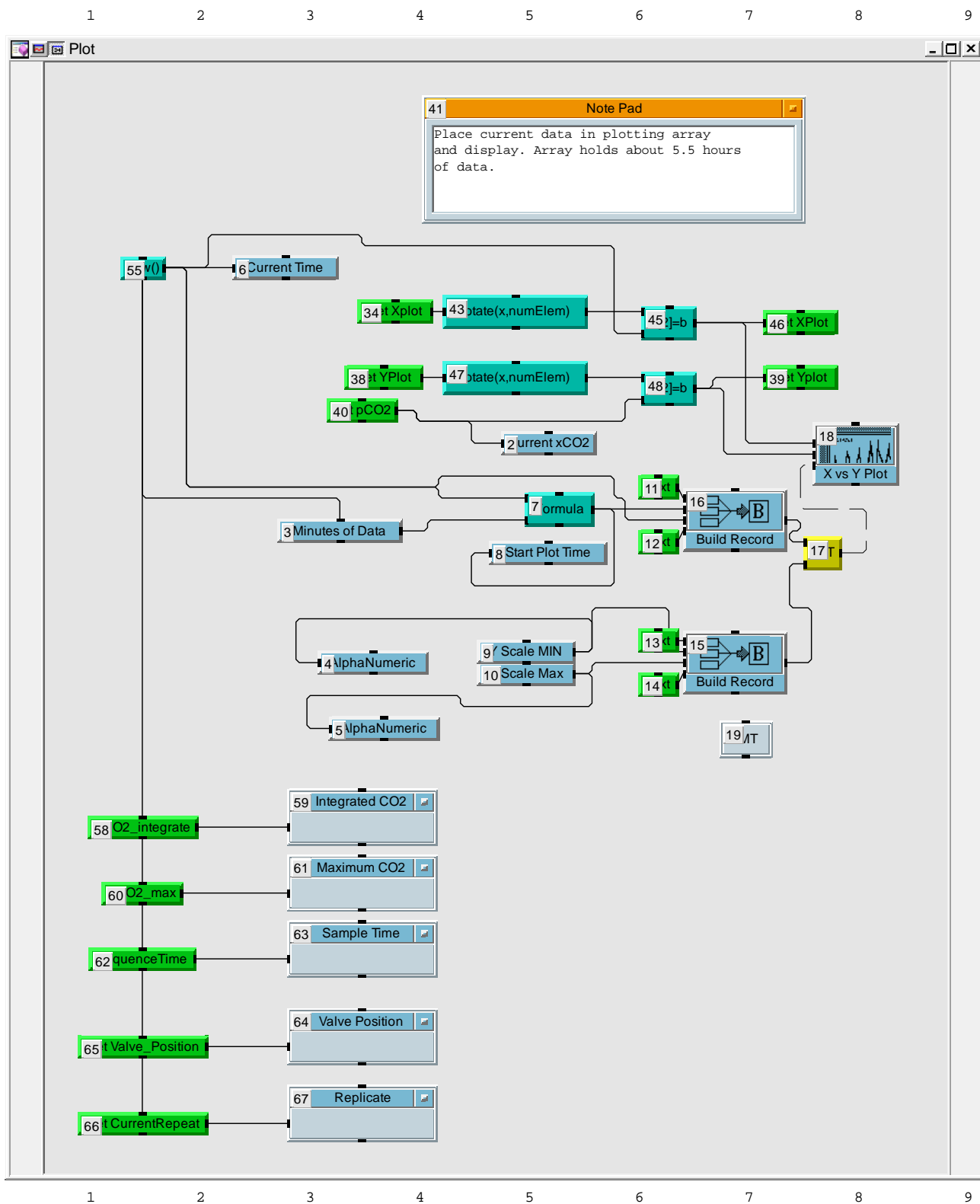
Open_Dump (F20): Detail View, Total Objects: 2



```
UserFunction "Open_Dump"
- 0 at: B2 Direct I/O "Serial12 ( @ 12)"
  - ObjectIndex: F20.0
  - Declared Scope: Local to Context
  - Transactions: 2 lines.
    - WRITE BYTE 254
    - WRITE BYTE 8
  - ShowTitleBar: true
  - ShowTerminals: true
  - ShowIconTitle: true
- 1 at: A2 Start "Start"
  - ObjectIndex: F20.1
  - Declared Scope: Local to Context
  - ShowTitleBar: false
  - ShowTerminals: false
  - ShowIconTitle: true
```

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Plot (F15): Detail View, Total Objects: 39



UserFunction "Plot"

2 at: D5 AlphaNumeric "Current xCO2" is added to panel

ObjectIndex: F15.2

Declared Scope: Local to Context

ClearAtActivate: false

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

3 at: E3 Slider "Minutes of Data" is added to panel

ObjectIndex: F15.3

Declared Scope: Local to Context

InitializeAtPrerun: true

InitialValue: 15

DetentSize: 1

EnableEditing: true

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```
Value Range: 1, 350
Detent Size: 1
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
LabelSpacing: EveryMajorTic
4 at: F3 AlphaNumeric "AlphaNumeric" is added to panel
ObjectIndex: F15.4
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
5 at: G4 AlphaNumeric "AlphaNumeric" is added to panel
ObjectIndex: F15.5
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
6 at: B3 AlphaNumeric "Current Time" is added to panel 2 times
ObjectIndex: F15.6
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
7 at: E5 Formula "Formula"
ObjectIndex: F15.7
Declared Scope: Local to Context
Formula: a-b*60
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true
8 at: E5 AlphaNumeric "Start Plot Time" is added to panel
ObjectIndex: F15.8
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
9 at: F5 Slider "Y Scale MIN" is added to panel
ObjectIndex: F15.9
Declared Scope: Local to Context
InitializeAtPrerun: true
InitialValue: 0
DetentSize: 25
EnableEditing: true
Value Range: -500, 500
Detent Size: 25
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
LabelSpacing: EveryMajorTic
10 at: F5 Slider "Y Scale Max" is added to panel
ObjectIndex: F15.10
Declared Scope: Local to Context
InitializeAtPrerun: true
InitialValue: 500
DetentSize: 25
EnableEditing: true
Value Range: 0, 2000
Detent Size: 25
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
LabelSpacing: EveryMajorTic
11 at: D6 Text Constant "Text"
ObjectIndex: F15.11
Declared Scope: Local to Context
DataShape: Scalar
ArraySize: 10
EnableEditing: true
ShowTitleBar: true
```

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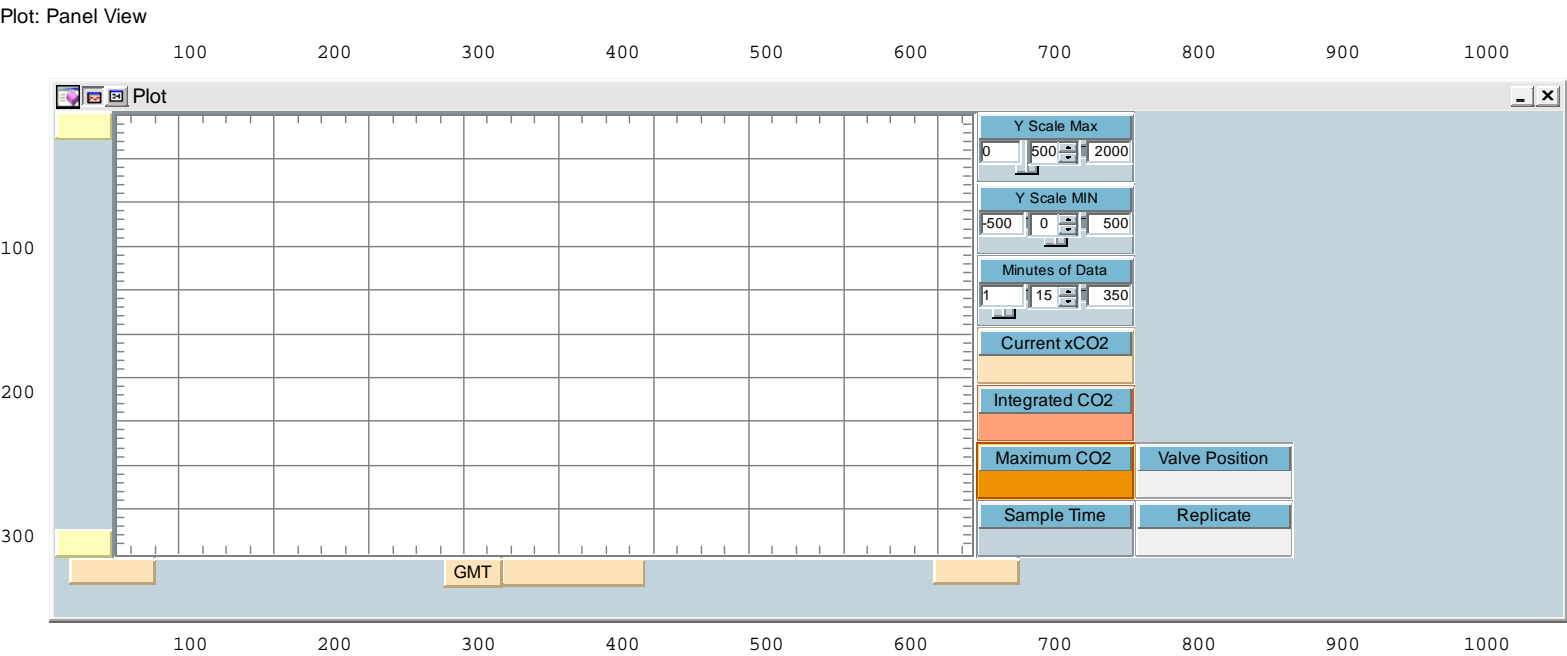
```
| ShowTerminals: false
| ShowIconTitle: true
12 at: E6 Text Constant "Text"
| ObjectIndex: F15.12
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
13 at: F6 Text Constant "Text"
| ObjectIndex: F15.13
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
14 at: F6 Text Constant "Text"
| ObjectIndex: F15.14
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
15 at: F7 Build Record "Build Record"
| ObjectIndex: F15.15
| Declared Scope: Local to Context
| Record output shape: Scalar
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
16 at: E7 Build Record "Build Record"
| ObjectIndex: F15.16
| Declared Scope: Local to Context
| Record output shape: Scalar
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
17 at: E8 Junction "JCT"
| ObjectIndex: F15.17
| Declared Scope: Local to Context
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
18 at: D8 X vs Y Plot "X vs Y Plot" is added to panel
| ObjectIndex: F15.18
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
| NumMarkers: None
| MarkerInterpolate: false
| MarkerColor: Dark Gray
| ShowScalesLegend: true
| ShowScaleLabels: true
| ShowScrollBars: true
| ShowAutoScaleButton: true
| EnableEditTracesAndScales: true
| GridType: Lines
19 at: G7 Label "GMT" is added to panel
| ObjectIndex: F15.19
| Declared Scope: Local to Context
| Label: "GMT"
| ShowTitleBar: false
| ShowTerminals: false
| ShowIconTitle: true
34 at: C4 Get Variable "Get Xplot"
| ObjectIndex: F15.34
```

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```
| Declared Scope: Local to Context
| Global Name: "Xplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
38 at: C4  Get Variable "Get YPlot"
| ObjectIndex: F15.38
| Declared Scope: Local to Context
| Global Name: "Yplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
39 at: C7  Set Variable "Set Yplot"
| ObjectIndex: F15.39
| Declared Scope: Local to Context
| Global Name: "Yplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
40 at: D3  Get Variable "Get pCO2"
| ObjectIndex: F15.40
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
41 at: A6  Note Pad "Note Pad"
| ObjectIndex: F15.41
| Declared Scope: Local to Context
| Note Contents: 3 lines.
|   | Place current data in plotting array
|   | and display. Array holds about 5.5 hours
|   | of data.
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
43 at: C5  Formula "rotate(x,numElem)"
| ObjectIndex: F15.43
| Declared Scope: Local to Context
| Formula: rotate(x, 1)
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
45 at: C6  Formula "a[2]=b"
| ObjectIndex: F15.45
| Declared Scope: Local to Context
| Formula: a[0] = b
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
46 at: C7  Set Variable "Set XPlot"
| ObjectIndex: F15.46
| Declared Scope: Local to Context
| Global Name: "Xplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
47 at: C5  Formula "rotate(x,numElem)"
| ObjectIndex: F15.47
| Declared Scope: Local to Context
| Formula: rotate(x, 1)
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
48 at: C6  Formula "a[2]=b"
| ObjectIndex: F15.48
| Declared Scope: Local to Context
| Formula: a[0] = b
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
55 at: B1  Formula "now()"
| ObjectIndex: F15.55
| Declared Scope: Local to Context
```

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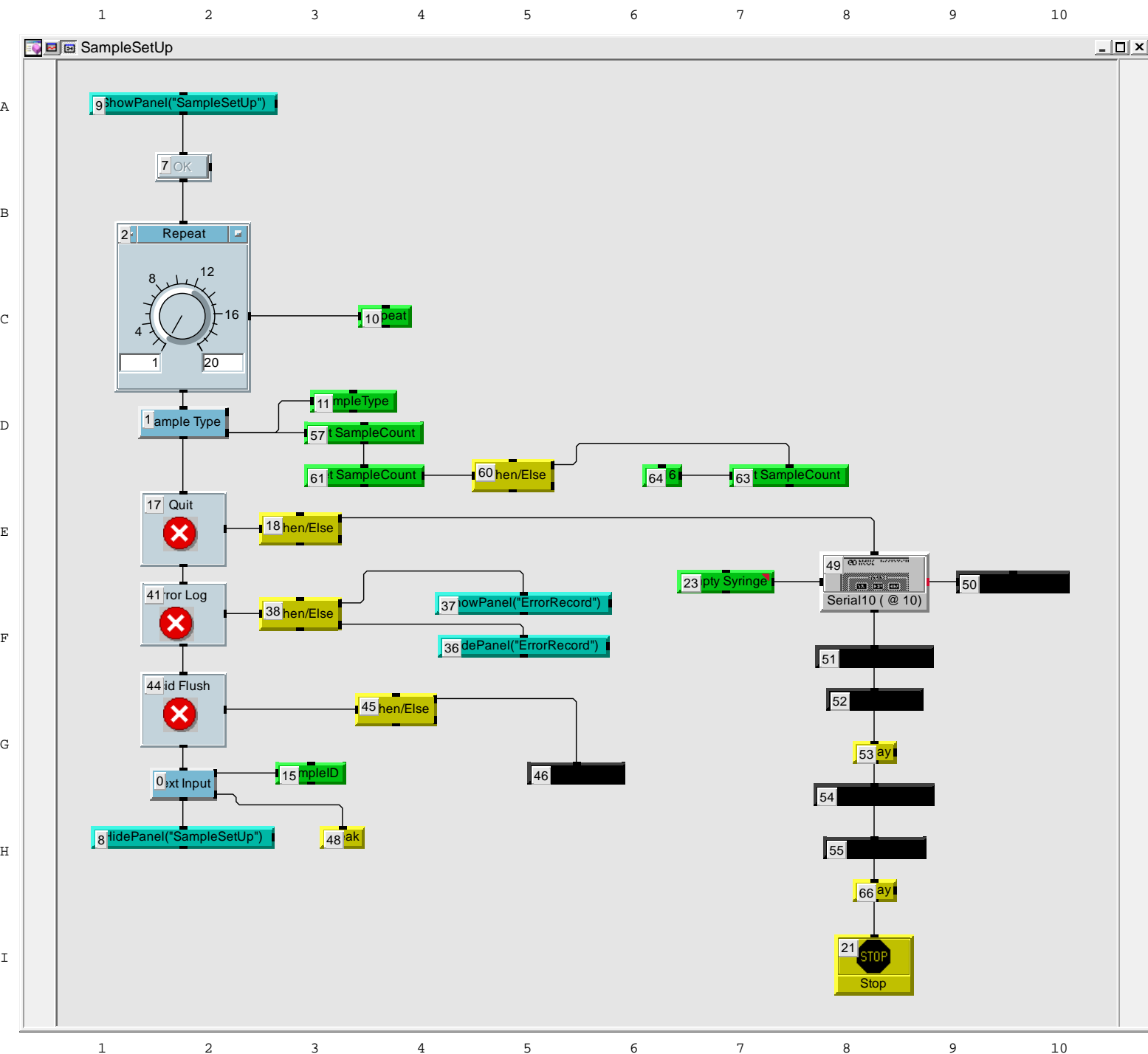
```
| Formula: now()
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
58 at: G1 Get Variable "pCO2_integrate"
| ObjectIndex: F15.58
| Declared Scope: Local to Context
| Global Name: "pCO2_integrate"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
59 at: G3 AlphaNumeric "Integrated CO2" is added to panel
| ObjectIndex: F15.59
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
60 at: H1 Get Variable "pCO2_max"
| ObjectIndex: F15.60
| Declared Scope: Local to Context
| Global Name: "pCO2_max"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
61 at: H3 AlphaNumeric "Maximum CO2" is added to panel
| ObjectIndex: F15.61
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
62 at: I1 Get Variable "SequenceTime"
| ObjectIndex: F15.62
| Declared Scope: Local to Context
| Global Name: "SequenceTime"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
63 at: I3 AlphaNumeric "Sample Time" is added to panel
| ObjectIndex: F15.63
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
64 at: I3 AlphaNumeric "Valve Position" is added to panel
| ObjectIndex: F15.64
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
65 at: I1 Get Variable "Get Valve_Position"
| ObjectIndex: F15.65
| Declared Scope: Local to Context
| Global Name: "Valve_Position"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
66 at: J1 Get Variable "Get CurrentRepeat"
| ObjectIndex: F15.66
| Declared Scope: Local to Context
| Global Name: "CurrentRepeat"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
67 at: J3 AlphaNumeric "Replicate" is added to panel
| ObjectIndex: F15.67
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
```

PanelView "Plot" (w=1047, h=351)

- 5: AlphaNumeric "AlphaNumeric" (x=0, y=0) (w=40, h=20)
- 9: Slider "Y Scale MIN" (x=640, y=50) (w=110, h=50)
- 10: Slider "Y Scale Max" (x=640, y=0) (w=110, h=50)
- 3: Slider "Minutes of Data" (x=640, y=100) (w=110, h=50)
- 2: AlphaNumeric "Current xCO2" (x=640, y=150) (w=110, h=40)
- 59: AlphaNumeric "Integrated CO2" (x=640, y=190) (w=110, h=40)
- 18: X vs Y Plot "X vs Y Plot" (x=40, y=0) (w=600, h=311)
- 8: AlphaNumeric "Start Plot Time" (x=10, y=310) (w=60, h=19)
- 4: AlphaNumeric "AlphaNumeric" (x=0, y=290) (w=40, h=20)
- 6: AlphaNumeric "Current Time" (x=310, y=310) (w=100, h=20)
- 19: Label "GMT" (x=270, y=310) (w=41, h=21)
- 63: AlphaNumeric "Sample Time" (x=640, y=270) (w=110, h=40)
- 61: AlphaNumeric "Maximum CO2" (x=640, y=230) (w=110, h=40)
- 6: AlphaNumeric "Current Time" (x=610, y=310) (w=60, h=19)
- 64: AlphaNumeric "Valve Position" (x=750, y=230) (w=110, h=40)
- 67: AlphaNumeric "Replicate" (x=750, y=270) (w=110, h=40)

SampleSetUp (F17): Detail View, Total Objects: 34



```
UserFunction "SampleSetUp"
- 0 at: G2 Text Input "Text Input"
  - ObjectIndex: F17.0
  - Declared Scope: Local to Context
  - PopupTitle: "Enter Sample ID"
  - PopupPosition: 240, 245
  - Prompt/Label: "Enter Sample ID"
  - Default Value: "Test"
  - Value Constraint: "strLen(value)>0"
  - Error Message: "You must enter text."
  - PopupTitleBackColor: Med Dark Orange
  - ShowTitleBar: true
  - ShowTerminals: true
  - ShowIconTitle: true
- 1 at: D2 Selection Control "Sample Type" is added to panel
  - ObjectIndex: F17.1
  - Declared Scope: Local to Context
  - InitializeAtPrerun: true
  - EnableEditing: true
  - ShowTitleBar: true
```

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```
| ShowTerminals: false
| ShowIconTitle: true
| Format: Slider List
| FormatSliderLayout: Vertical
2 at: C2 Knob "Repeat" is added to panel
| ObjectIndex: F17.2
| Declared Scope: Local to Context
| InitializeAtPrerun: true
| InitialValue: 1
| DetentSize: 1
| EnableEditing: true
| Value Range: 1, 20
| Detent Size: 1
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
| ShowDigitalDisplay: false
| LabelSpacing: EveryMajorTic
| Orientation: Horizontal
7 at: A2 OK "OK" is added to panel
| ObjectIndex: F17.7
| Declared Scope: Local to Context
| Assign to Enter Button: true
| Assign to Escape Button: false
| Assign to Function Key: None
| EnableOnPing: true
| ShowTitleBar: false
| ShowTerminals: false
| ShowIconTitle: true
8 at: H2 Formula "HidePanel("SampleSetUp")"
| ObjectIndex: F17.8
| Declared Scope: Local to Context
| Formula: HidePanel("SampleSetUp")
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
9 at: A2 Formula "ShowPanel("SampleSetUp")"
| ObjectIndex: F17.9
| Declared Scope: Local to Context
| Formula: ShowPanel("SampleSetUp", 100, 100)
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
10 at: C4 Set Variable "Repeat"
| ObjectIndex: F17.10
| Declared Scope: Local to Context
| Global Name: "Repeat"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
11 at: D3 Set Variable "SampleType"
| ObjectIndex: F17.11
| Declared Scope: Local to Context
| Global Name: "SampleType"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
15 at: G3 Set Variable "SampleID"
| ObjectIndex: F17.15
| Declared Scope: Local to Context
| Global Name: "SampleID"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
17 at: E2 Toggle Control "Quit" is added to panel
| ObjectIndex: F17.17
| Declared Scope: Local to Context
| InitializeAtActivate: true
| InitialValue: 0
| EnableEditing: true
| ShowTitleBar: false
| ShowTerminals: false
| ShowIconTitle: true
| Format: <Custom>
```

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```

└─ Scaled: false
18 at: E3 If/Then/Else "If/Then/Else"
└─ ObjectIndex: F17.18
└─ Declared Scope: Local to Context
└─ If/Else cases: a==1
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
21 at: I8 Stop "Stop"
└─ ObjectIndex: F17.21
└─ Declared Scope: Local to Context
└─ Exit code: 0
└─ ShowTitleBar: true
└─ ShowTerminals: false
└─ ShowIconTitle: true
23 at: E7 Text Constant "Empty Syringe"
└─ ObjectIndex: F17.23
└─ Description: Valve 1 to Port 2
└─ Declared Scope: Local to Context
└─ DataShape: Scalar
└─ ArraySize: 10
└─ EnableEditing: true
└─ ShowTitleBar: true
└─ ShowTerminals: false
└─ ShowIconTitle: true
36 at: F5 Formula "HidePanel("ErrorRecord")"
└─ ObjectIndex: F17.36
└─ Declared Scope: Local to Context
└─ Formula: HidePanel("ErrorRecord")
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
37 at: F5 Formula "ShowPanel("ErrorRecord")"
└─ ObjectIndex: F17.37
└─ Declared Scope: Local to Context
└─ Formula: ShowPanel("ErrorRecord")
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
38 at: F3 If/Then/Else "If/Then/Else"
└─ ObjectIndex: F17.38
└─ Declared Scope: Local to Context
└─ If/Else cases: l==A
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
41 at: F2 Toggle Control " Error Log" is added to panel
└─ ObjectIndex: F17.41
└─ Declared Scope: Local to Context
└─ InitializeAtActivate: true
└─ InitialValue: 0
└─ EnableEditing: true
└─ ShowTitleBar: false
└─ ShowTerminals: false
└─ ShowIconTitle: true
└─ Format: <Custom>
└─ Scaled: false
44 at: G2 Toggle Control "Acid Flush" is added to panel
└─ ObjectIndex: F17.44
└─ Declared Scope: Local to Context
└─ AutoExecute: true
└─ InitializeAtActivate: true
└─ InitialValue: 0
└─ EnableEditing: true
└─ ShowTitleBar: false
└─ ShowTerminals: false
└─ ShowIconTitle: true
└─ Format: <Custom>
└─ Scaled: false
45 at: G4 If/Then/Else "If/Then/Else"
└─ ObjectIndex: F17.45
└─ Declared Scope: Local to Context
└─ If/Else cases: a==1
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true

```

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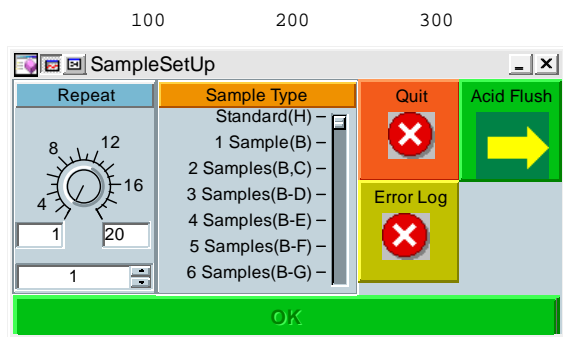
```
| ShowTerminals: true
| ShowIconTitle: true
46 at: G5 Call "Call AcidFlush"
| ObjectIndex: F17.46
| Declared Scope: Local to Context
| Function name: "AcidFlush"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
48 at: H3 Break "Break"
| ObjectIndex: F17.48
| Declared Scope: Local to Context
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
49 at: E8 Direct I/O "Serial10 ( @ 10)"
| ObjectIndex: F17.49
| Declared Scope: Local to Context
| Transactions: WRITE TEXT a EOL
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
50 at: E9 Call "Call ErrorRecord"
| ObjectIndex: F17.50
| Declared Scope: Local to Context
| Function name: "ErrorRecord"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
51 at: F8 Call "Call Open_Dump"
| ObjectIndex: F17.51
| Declared Scope: Local to Context
| Function name: "Open_Dump"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
52 at: F8 Call "Call Full_Flow"
| ObjectIndex: F17.52
| Declared Scope: Local to Context
| Function name: "Full_Flow"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
53 at: G8 Delay "Delay"
| ObjectIndex: F17.53
| Declared Scope: Local to Context
| Delay: 10
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
54 at: G8 Call "Call Close_Dump"
| ObjectIndex: F17.54
| Declared Scope: Local to Context
| Function name: "Close_Dump"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
55 at: H8 Call "Call Stop_Flow"
| ObjectIndex: F17.55
| Declared Scope: Local to Context
| Function name: "Stop_Flow"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
57 at: D3 Set Variable "Set SampleCount"
| ObjectIndex: F17.57
| Declared Scope: Local to Context
| Global Name: "SampleCount"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
60 at: D5 If/Then/Else "If/Then/Else"
| ObjectIndex: F17.60
| Declared Scope: Local to Context
| If/Else cases: a==0
```

```
| 11/Else Cases. a==0
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
61 at: D3  Get Variable "Get SampleCount"
| ObjectIndex: F17.61
| Declared Scope: Local to Context
| Global Name: "SampleCount"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
63 at: D7  Set Variable "Set SampleCount"
| ObjectIndex: F17.63
| Declared Scope: Local to Context
| Global Name: "SampleCount"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
64 at: D6  Constant "Int16"
| ObjectIndex: F17.64
| Declared Scope: Local to Context
| InitialValue: 0
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
66 at: H8  Delay "Delay"
| ObjectIndex: F17.66
| Declared Scope: Local to Context
| Delay: 1
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
```

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SampleSetUp: Panel View

100

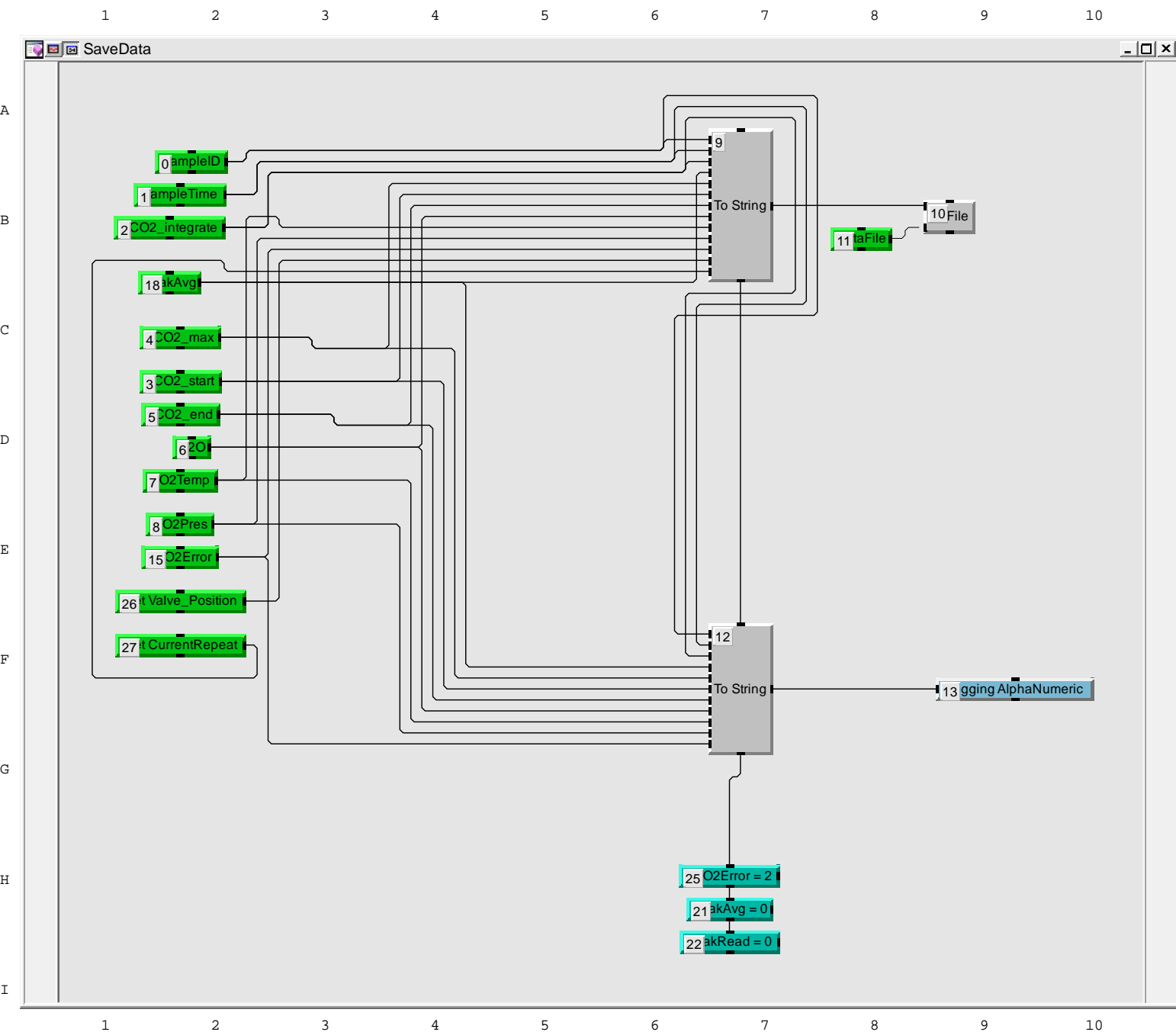


100 200 300

```
PanelView "SampleSetUp" (w=381, h=177)
| 2: Knob "Repeat" (x=0, y=0) (w=100, h=150)
| 7: OK "OK" (x=0, y=150) (w=380, h=31)
| 1: Selection Control "Sample Type" (x=100, y=0) (w=140, h=150)
| 17: Toggle Control "Quit" (x=240, y=0) (w=71, h=71)
| 41: Toggle Control "Error Log" (x=240, y=70) (w=70, h=71)
| 44: Toggle Control "Acid Flush" (x=310, y=0) (w=71, h=71)
```

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SaveData (F16): Detail View, Total Objects: 21



UserFunction "SaveData"

```

0 at: A2 Get Variable "SampleID"
  ObjectIndex: F16.0
  Declared Scope: Local to Context
  Global Name: "SampleID"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
1 at: B2 Get Variable "SampleTime"
  ObjectIndex: F16.1
  Declared Scope: Local to Context
  Global Name: "SampleTime"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
2 at: B1 Get Variable "pCO2_integrate"
  ObjectIndex: F16.2
  Declared Scope: Local to Context
  Global Name: "pCO2_integrate"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
3 at: C2 Get Variable "pCO2_start"

```

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```
| ObjectIndex: F16.3
| Declared Scope: Local to Context
| Global Name: "pCO2_start"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
4 at: C2 Get Variable "pCO2_max"
| ObjectIndex: F16.4
| Declared Scope: Local to Context
| Global Name: "pCO2_max"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
5 at: D2 Get Variable "pCO2_end"
| ObjectIndex: F16.5
| Declared Scope: Local to Context
| Global Name: "pCO2_end"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
6 at: D2 Get Variable "H2O"
| ObjectIndex: F16.6
| Declared Scope: Local to Context
| Global Name: "H2O"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
7 at: D2 Get Variable "CO2Temp"
| ObjectIndex: F16.7
| Declared Scope: Local to Context
| Global Name: "CO2Temp"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
8 at: E2 Get Variable "CO2Pres"
| ObjectIndex: F16.8
| Declared Scope: Local to Context
| Global Name: "CO2Pres"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
9 at: B7 To String "To String"
| ObjectIndex: F16.9
| Declared Scope: Local to Context
| Transactions: 27 lines.
| WRITE TEXT a STR
| WRITE TEXT ", " STR
| WRITE TEXT B DATE:DMY TIME:HMS:H24
| WRITE TEXT ", " STR
| WRITE TEXT B
| WRITE TEXT ", " STR
| WRITE TEXT C REAL64 FIX:0
| WRITE TEXT ", " STR
| WRITE TEXT D REAL64 FIX:2
| WRITE TEXT ", " STR
| WRITE TEXT E REAL64 FIX:2
| WRITE TEXT ", " STR
| WRITE TEXT F REAL64 FIX:2
| WRITE TEXT ", " STR
| WRITE TEXT G REAL64 FIX:2
| WRITE TEXT ", " STR
| WRITE TEXT H REAL64 FIX:2
| WRITE TEXT ", " STR
| WRITE TEXT I REAL64 FIX:2
| WRITE TEXT ", " STR
| WRITE TEXT j REAL64 FIX:2
| WRITE TEXT ", " STR
| WRITE TEXT k INT16
| WRITE TEXT ", " STR
| WRITE TEXT l INT16
| WRITE TEXT ", " STR
| WRITE TEXT m INT16 EOL
| MultiFieldFormat: (...) Syntax
| ArrayFormat: Block
```

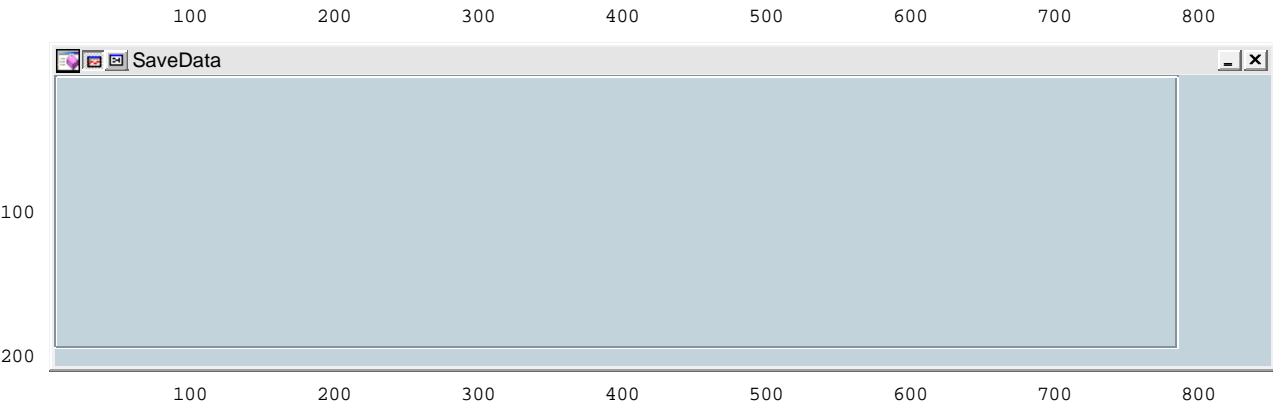

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```
- ArraySeparator: " "
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
10 at: B9 To File "To File"
- ObjectIndex: F16.10
- Declared Scope: Local to Context
- Transactions: 2 lines.
  - WRITE TEXT a EOL
  - EXECUTE CLOSE
- EolSequence: "\r\n"
- MultiFieldFormat: (...) Syntax
- ArrayFormat: Block
- ArraySeparator: "\r\n"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
11 at: B8 Get Variable "DataFile"
- ObjectIndex: F16.11
- Declared Scope: Local to Context
- Global Name: "DataFile"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
12 at: F7 To String "To String"
- ObjectIndex: F16.12
- Declared Scope: Local to Context
- Transactions: 21 lines.
  - WRITE TEXT a STR FW:13 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT B DATE:DMY TIME:HMS:H24
  - WRITE TEXT " " STR
  - WRITE TEXT C REAL64 FIX:0 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT D REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT E REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT F REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT G REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT H REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT I REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT j REAL64 FIX:2
  - WRITE TEXT " " STR
  - WRITE TEXT k INT16 FW:6 RJ EOL
- MultiFieldFormat: (...) Syntax
- ArrayFormat: Block
- ArraySeparator: " "
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
13 at: F9 Logging AlphaNumeric "Logging AlphaNumeric" is added to panel
- ObjectIndex: F16.13
- Declared Scope: Local to Context
- ClearAtActivate: false
- Buffer Size: 256
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
15 at: E2 Get Variable "TCO2Error"
- ObjectIndex: F16.15
- Declared Scope: Local to Context
- Global Name: "TCO2Error"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
18 at: B1 Get Variable "PeakAvg"
- ObjectIndex: F16.18
- Declared Scope: Local to Context
- Global Name: "PeakAvg"
```

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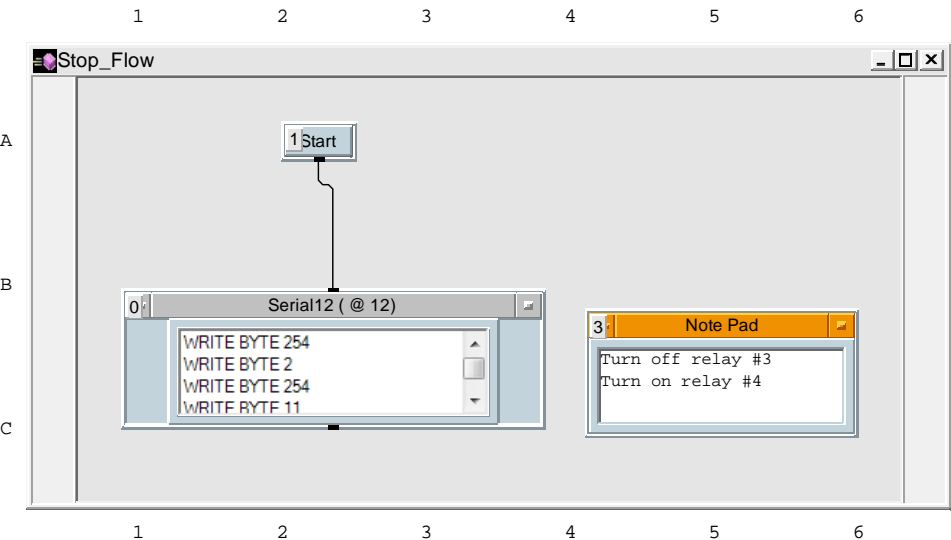
```
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
21 at: H7 Formula "PeakAvg = 0"
└─ ObjectIndex: F16.21
└─ Declared Scope: Local to Context
└─ Formula: PeakAvg = 0
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
22 at: H7 Formula "PeakRead = 0"
└─ ObjectIndex: F16.22
└─ Declared Scope: Local to Context
└─ Formula: PeakRead = 0
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
25 at: H7 Formula "TCO2Error = 2"
└─ ObjectIndex: F16.25
└─ Declared Scope: Local to Context
└─ Formula: TCO2Error = -1
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
26 at: E2 Get Variable "Get Valve_Position"
└─ ObjectIndex: F16.26
└─ Declared Scope: Local to Context
└─ Global Name: "Valve_Position"
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
27 at: F2 Get Variable "Get CurrentRepeat"
└─ ObjectIndex: F16.27
└─ Declared Scope: Local to Context
└─ Global Name: "CurrentRepeat"
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
```

SaveData: Panel View



PanelView "SaveData" (w=844, h=202)
└ 13: Logging AlphaNumeric "Logging AlphaNumeric" (x=0, y=0) (w=780, h=190)

Stop_Flow (F23): Detail View, Total Objects: 3



```
UserFunction "Stop_Flow"
└ 0 at: B2 Direct I/O "Serial12 (@ 12)"
  └ ObjectIndex: F23.0
  └ Declared Scope: Local to Context
  └ Transactions: 4 lines.
    └ WRITE BYTE 254
    └ WRITE BYTE 2
    └ WRITE BYTE 254
    └ WRITE BYTE 11
  └ ShowTitleBar: true
  └ ShowTerminals: true
  └ ShowIconTitle: true
└ 1 at: A2 Start "Start"
  └ ObjectIndex: F23.1
  └ Declared Scope: Local to Context
  └ ShowTitleBar: false
  └ ShowTerminals: false
  └ ShowIconTitle: true
└ 3 at: C5 Note Pad "Note Pad"
  └ ObjectIndex: F23.3
  └ Declared Scope: Local to Context
  └ Note Contents: 2 lines.
    └ Turn off relay #3
    └ Turn on relay #4
  └ ShowTitleBar: true
  └ ShowTerminals: false
  └ ShowIconTitle: true
```

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Open_Dump (F20): Detail View, Total Objects: 2.	17
Plot (F15): Detail View, Total Objects: 39.	18
Panel View.	24
SampleSetUp (F17): Detail View, Total Objects: 34.	25
Panel View.	30
SaveData (F16): Detail View, Total Objects: 21.	31
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Stop_Flow (F23): Detail View, Total Objects: 3.	35