MotionWorks+ version 2.56 Summary of changes

- New MW+ version, released July 2001
- Contains new tools and features
- Separate Archive tool (ver 2.09) available
- New System Ladder version 225
- New CimScope version 0.37E

New tools and features

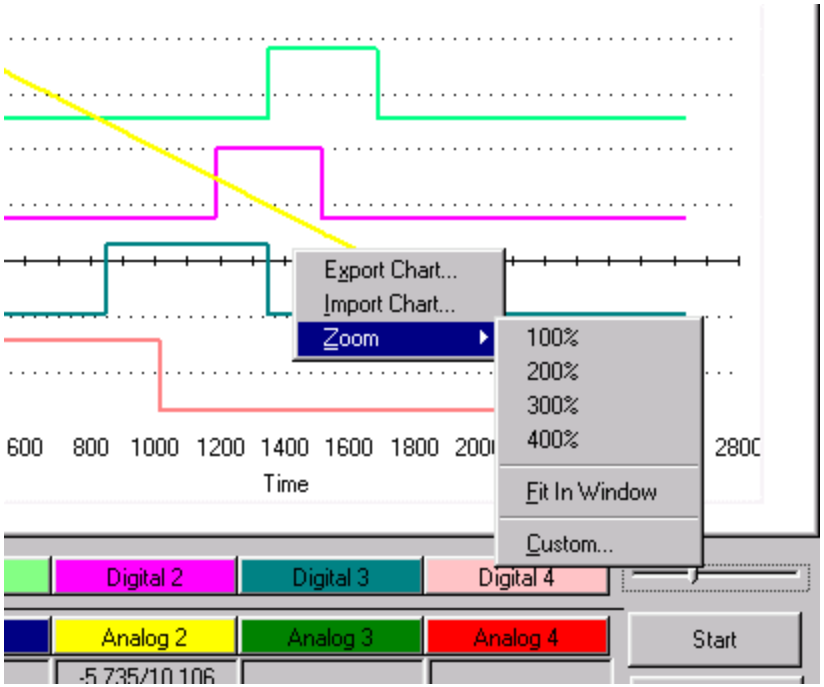
- Scope
- Archive
- Search & Replace
- Cross Reference

Scope

- Graphical and table view of captured data
  - (4) Analog channels
  - (4) Digital channels
  - Trigger condition is settable
  - Graphical or table view of data
- Configure by property window settings
- Can be run online or offline

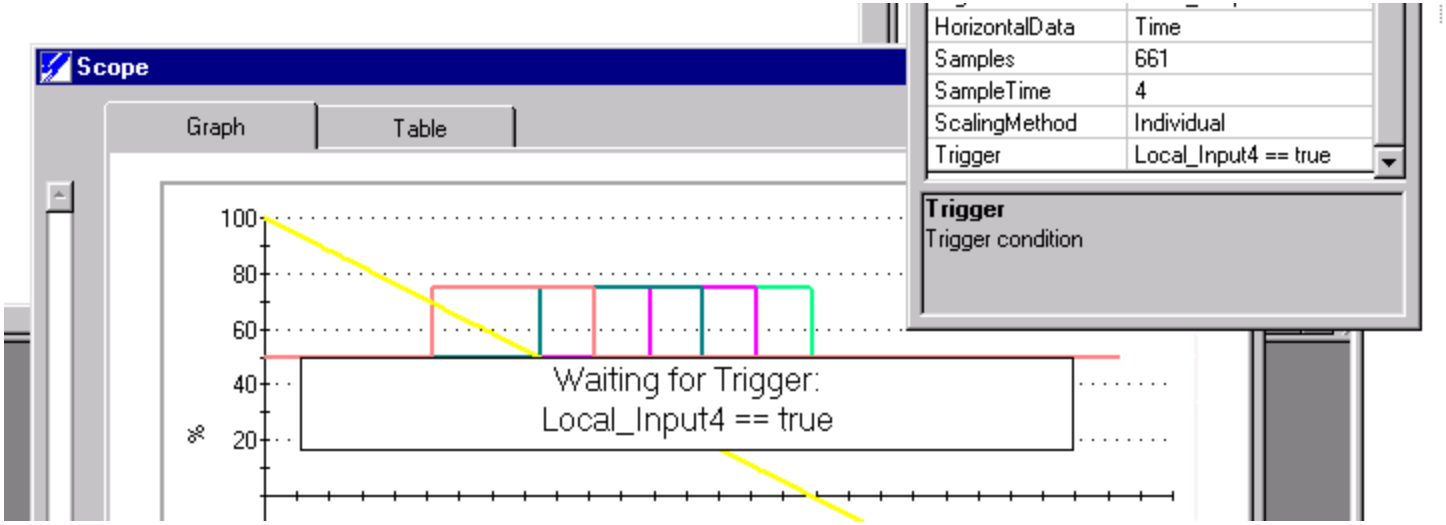
Scope

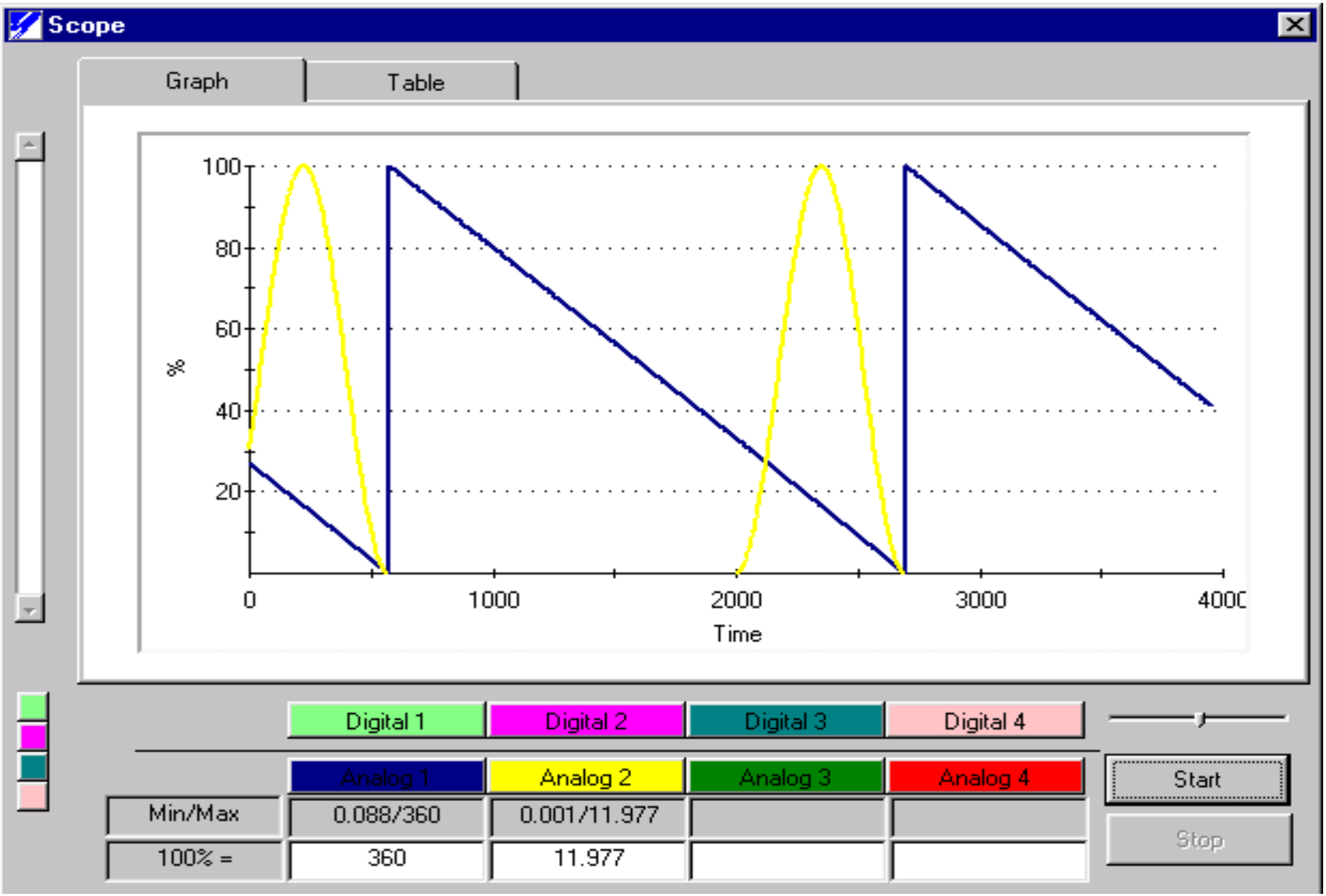
- Export Chart
  - saves to a file
- Import Chart
  - get from file
- Zoom
  - vary view size
  - “rubber band” an area to zoom in

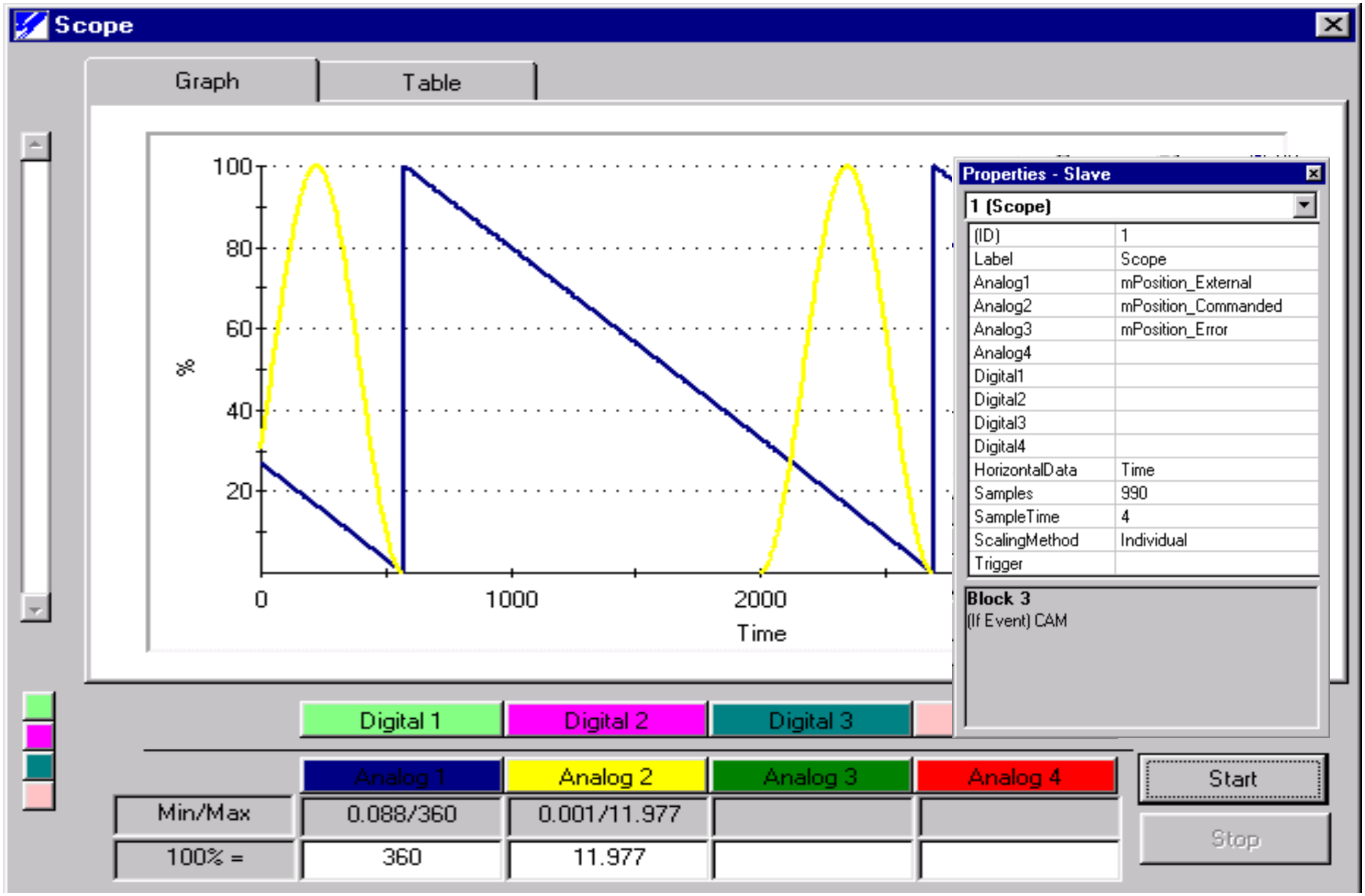


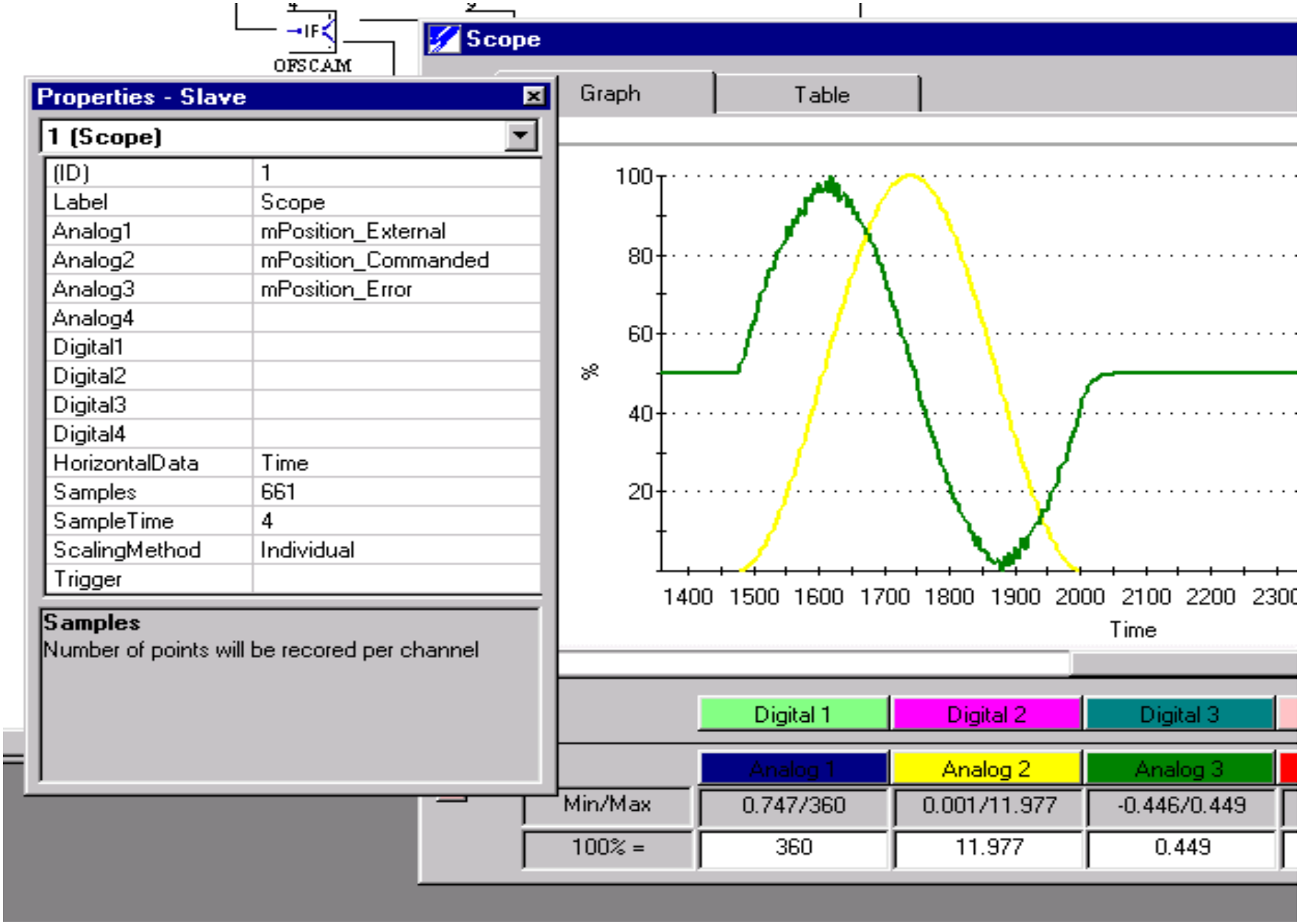
Scope Trigger

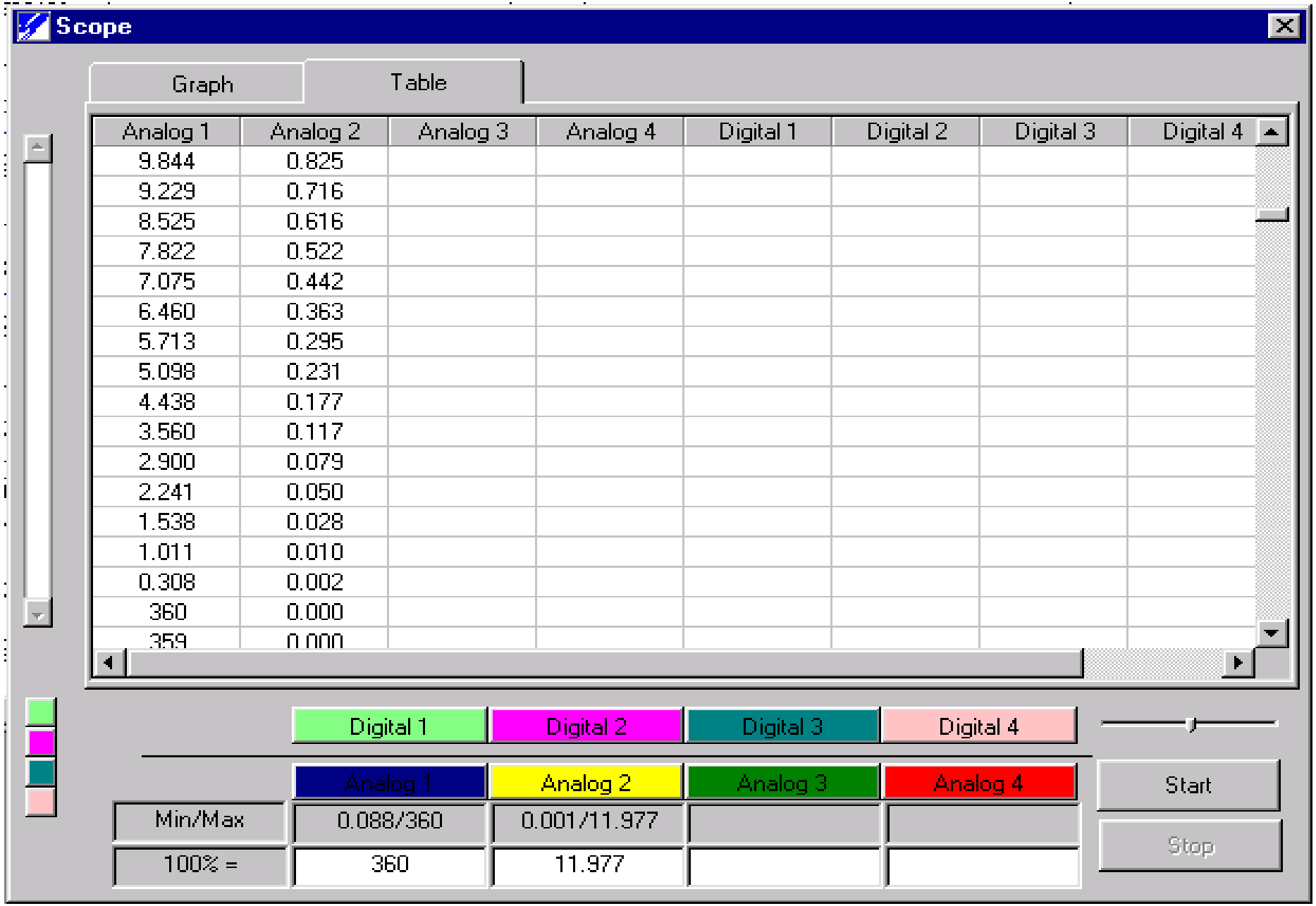
- One Conditional statement starts data capture
- Use Expression Builder
  - example: Local_Input4==true

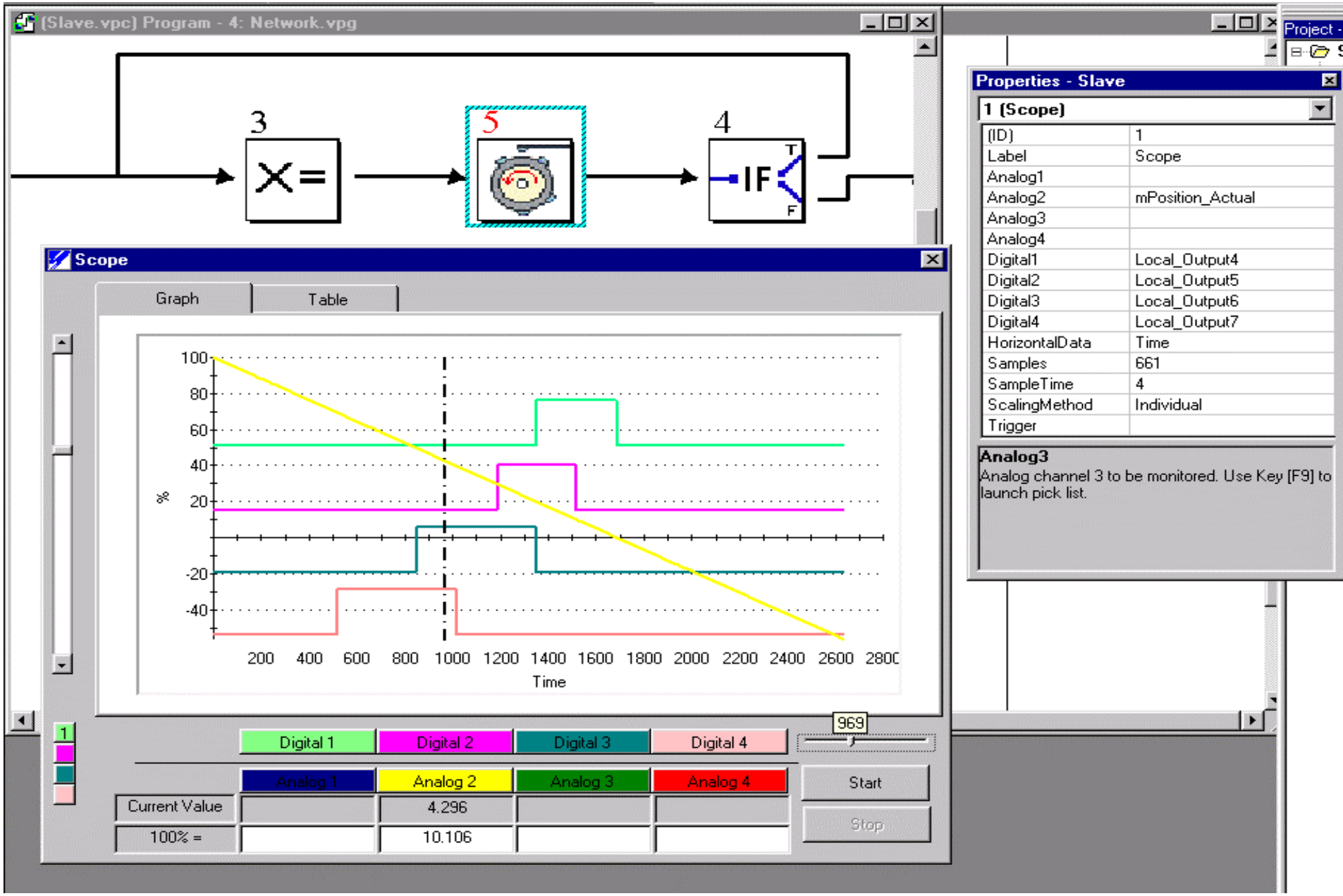



Scope
Graph
Table
100
80
60
40
20
%
0
1000
2000
3000
4000
Time
Digital 1
Digital 2
Digital 3
Digital 4
Analog 1
Analog 2
Analog 3
Analog 4
Start
Stop
Min/Max
0.088/360
0.001/11.977
100% =
360
11.977


Scope
Graph
Table
100
80
60
40
20
%
0
1000
2000
Time
Properties - Slave
1 (Scope)
(ID) 1
Label Scope
Analog1 mPosition_External
Analog2 mPosition_Commanded
Analog3 mPosition_Error
Analog4
Digital1
Digital2
Digital3
Digital4
HorizontalData Time
Samples 990
SampleTime 4
ScalingMethod Individual
Trigger
Block 3
(If Event) CAM
Digital 1
Digital 2
Digital 3
Analog 1
Analog 2
Analog 3
Analog 4
Min/Max
0.088/360
0.001/11.977
100% =
360
11.977
Start
Stop


IF
OFSCAM
Scope
Properties - Slave
1 (Scope)
(ID) 1
Label Scope
Analog1 mPosition_External
Analog2 mPosition_Commanded
Analog3 mPosition_Error
Analog4
Digital1
Digital2
Digital3
Digital4
HorizontalData Time
Samples 661
SampleTime 4
ScalingMethod Individual
Trigger
Samples
Number of points will be recored per channel
Graph
Table
100
80
60
40
20
%
1400 1500 1600 1700 1800 1900 2000 2100 2200 2300
Time
Digital 1
Digital 2
Digital 3
Analog 1
Analog 2
Analog 3
Min/Max
0.747/360
0.001/11.977
-0.446/0.449
100% =
360
11.977
0.449

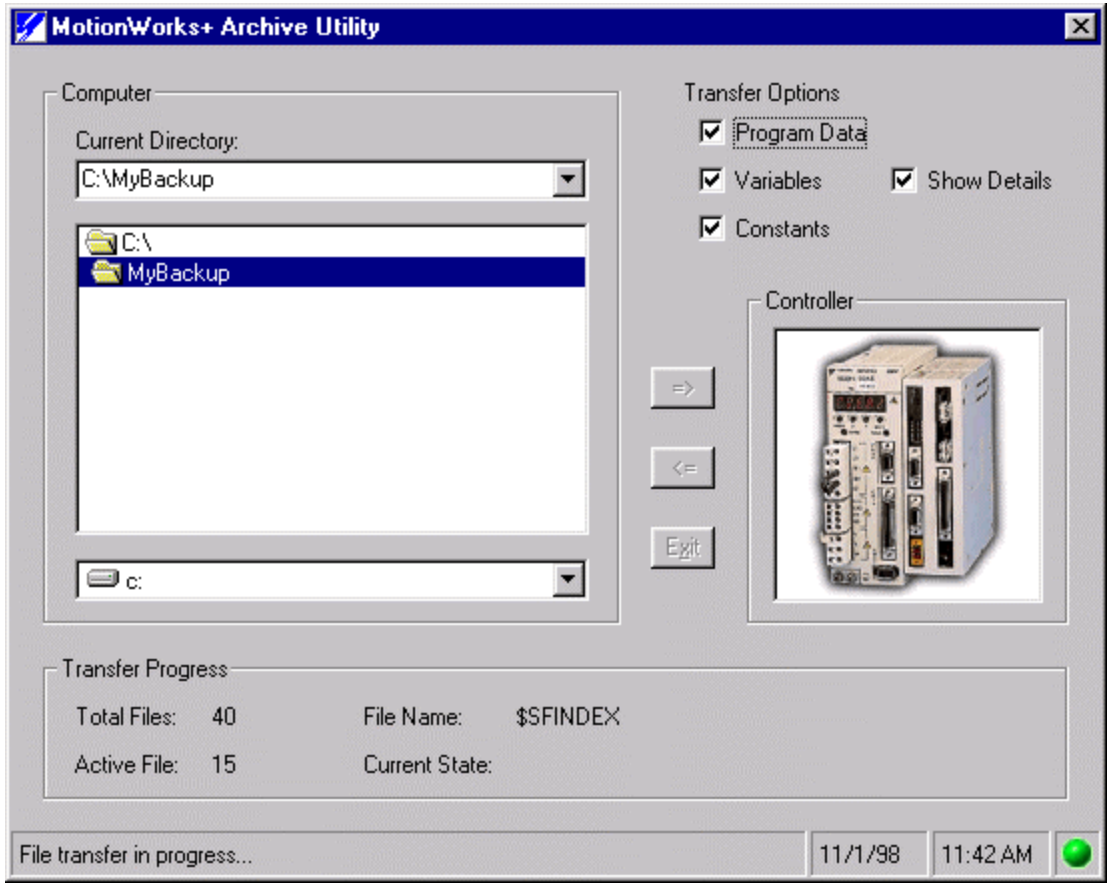

Scope
Graph
Table
Analog 1
Analog 2
Analog 3
Analog 4
Digital 1
Digital 2
Digital 3
Digital 4
9.844 0.825
9.229 0.716
8.525 0.616
7.822 0.522
7.075 0.442
6.460 0.363
5.713 0.295
5.098 0.231
4.438 0.177
3.560 0.117
2.900 0.079
2.241 0.050
1.538 0.028
1.011 0.010
0.308 0.002
360 0.000
359 0.000
Digital 1
Digital 2
Digital 3
Digital 4
Analog 1
Analog 2
Analog 3
Analog 4
Start
Stop
Min/Max
0.088/360
0.001/11.977
100% =
360
11.977


(Slave.vpc) Program - 4: Network.vpg
3
X=
5
4
IF
T
F
Scope
Graph
Table
100
80
60
40
20
%
-20
-40
200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800
Time
Digital 1
Digital 2
Digital 3
Digital 4
969
Analog 1
Analog 2
Analog 3
Analog 4
Start
Stop
Current Value
4.296
100% =
10.106
Properties - Slave
1 (Scope)
(ID) 1
Label Scope
Analog1
Analog2 mPosition_Actual
Analog3
Analog4
Digital1 Local_Output4
Digital2 Local_Output5
Digital3 Local_Output6
Digital4 Local_Output7
HorizontalData Time
Samples 661
SampleTime 4
ScalingMethod Individual
Trigger
Analog3
Analog channel 3 to be monitored. Use Key [F9] to launch pick list.
Project -

Archive

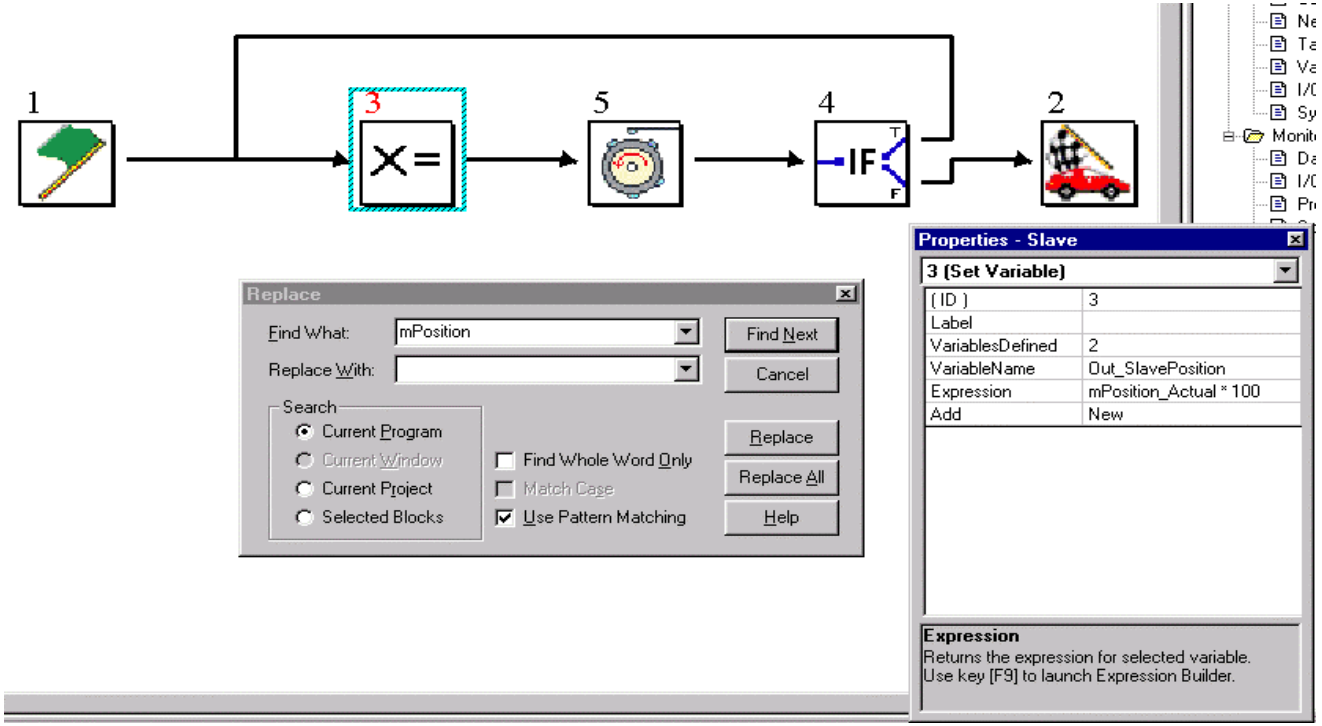
- Installed with MW+
- Can also be a “Stand Alone” application
- Independent install wizard on CDROM
- Not necessary to have MW or MW+ installed on the PC to use archive
- Located in Tools pull down menu in MW+
- Upload or Download complete projects
- SGDH parameters included in archive

Archive


MotionWorks+ Archive Utility
Computer
Current Directory:
C:\MyBackup
C:\
MyBackup
c:
Transfer Options
Program Data
Variables
Show Details
Constants
Controller
=>
<=
Exit
Transfer Progress
Total Files: 40
File Name: $SFINDEX
Active File: 15
Current State:
File transfer in progress...
11/1/98
11:42 AM

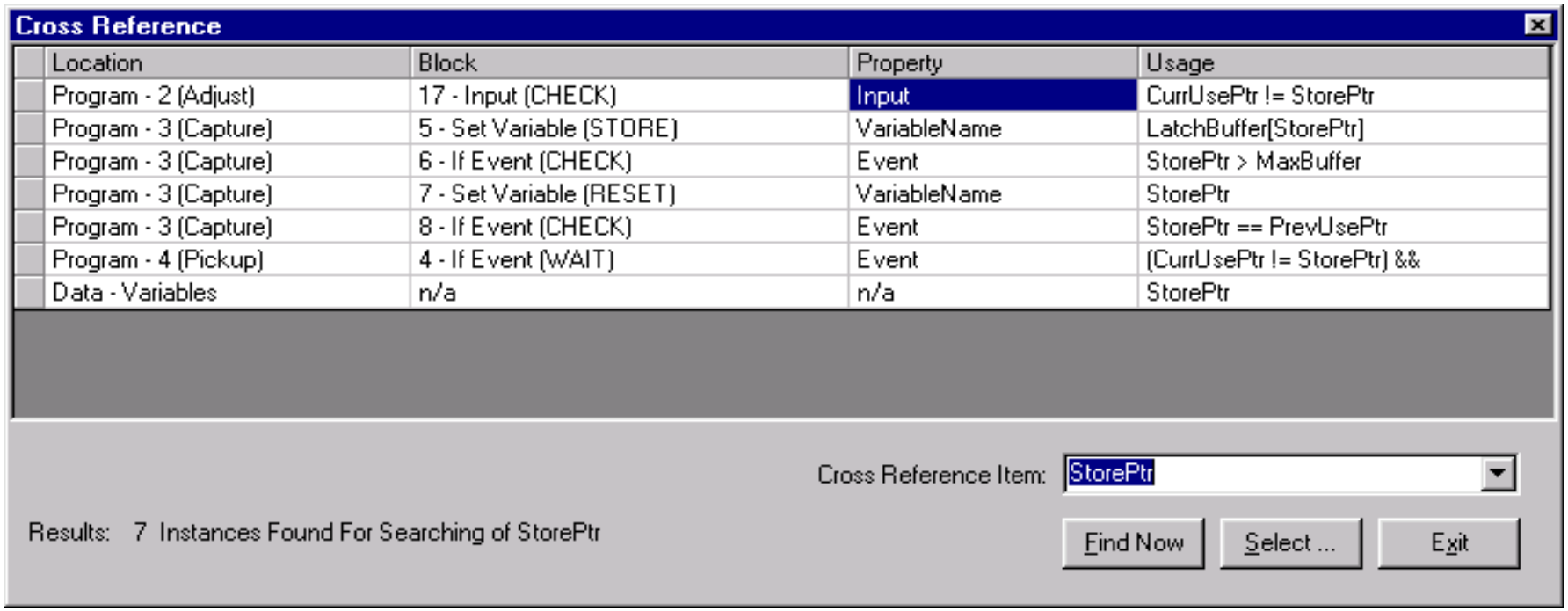
Search & Replace

- Change variable or I/O names



Cross Reference

- Select any type of data , except tables.
- Use “Select” to get window of all items.



New System Ladder version 225

- Improved MP940 initialization on power up

New CimScope version 0.37E

- More reliable data transfer and initialization

Summary Slide

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- New System Ladder version 225
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