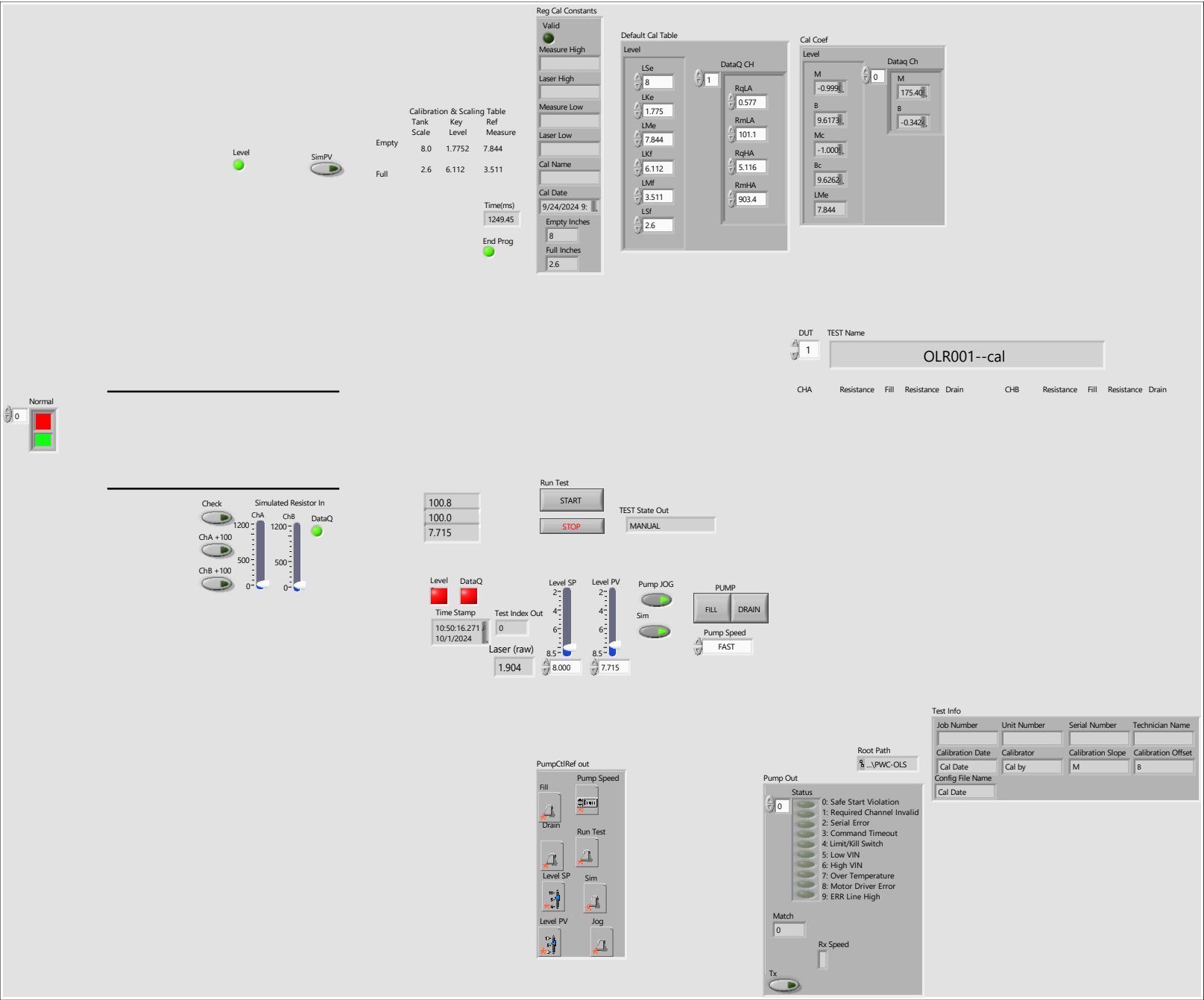TEST_TestContoller.vi
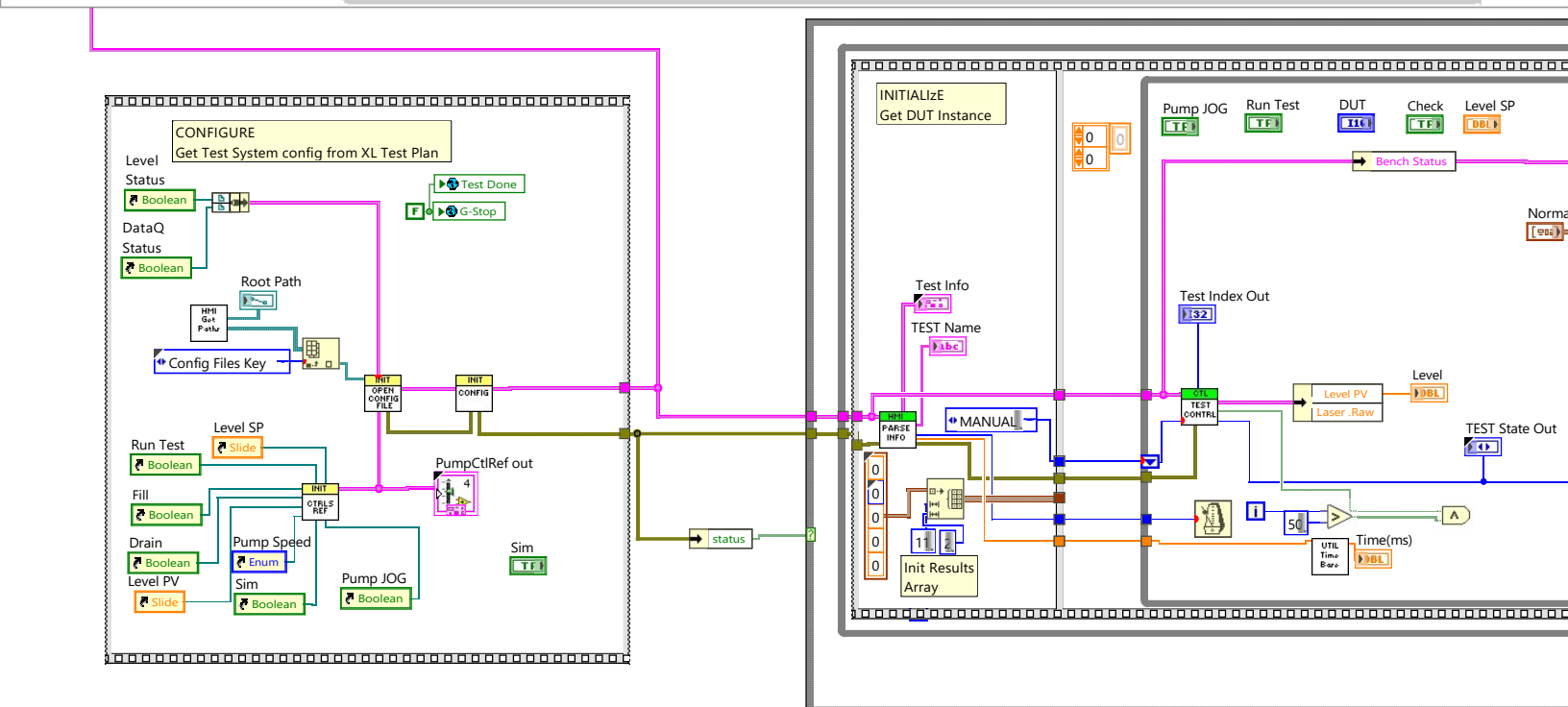C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
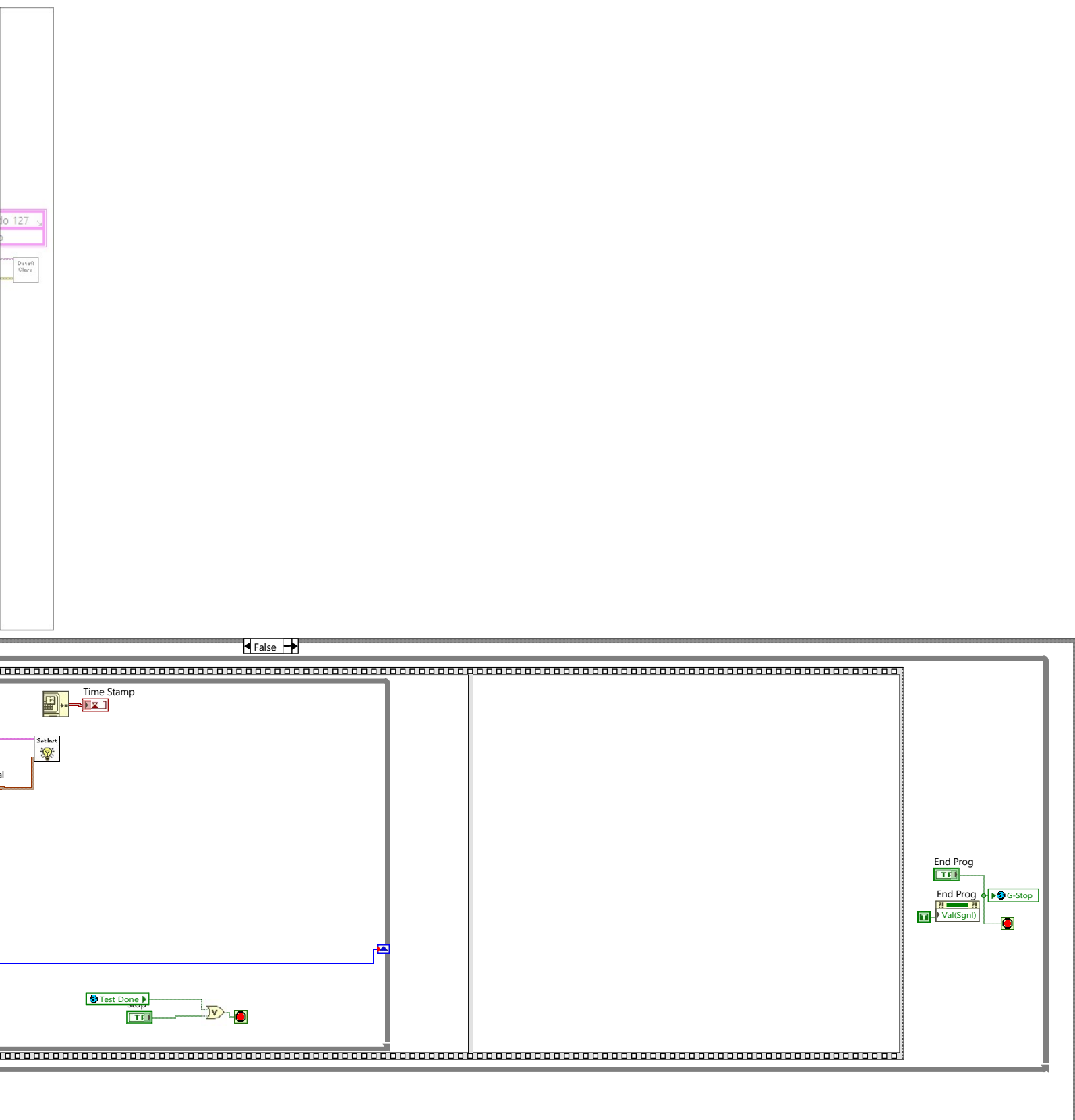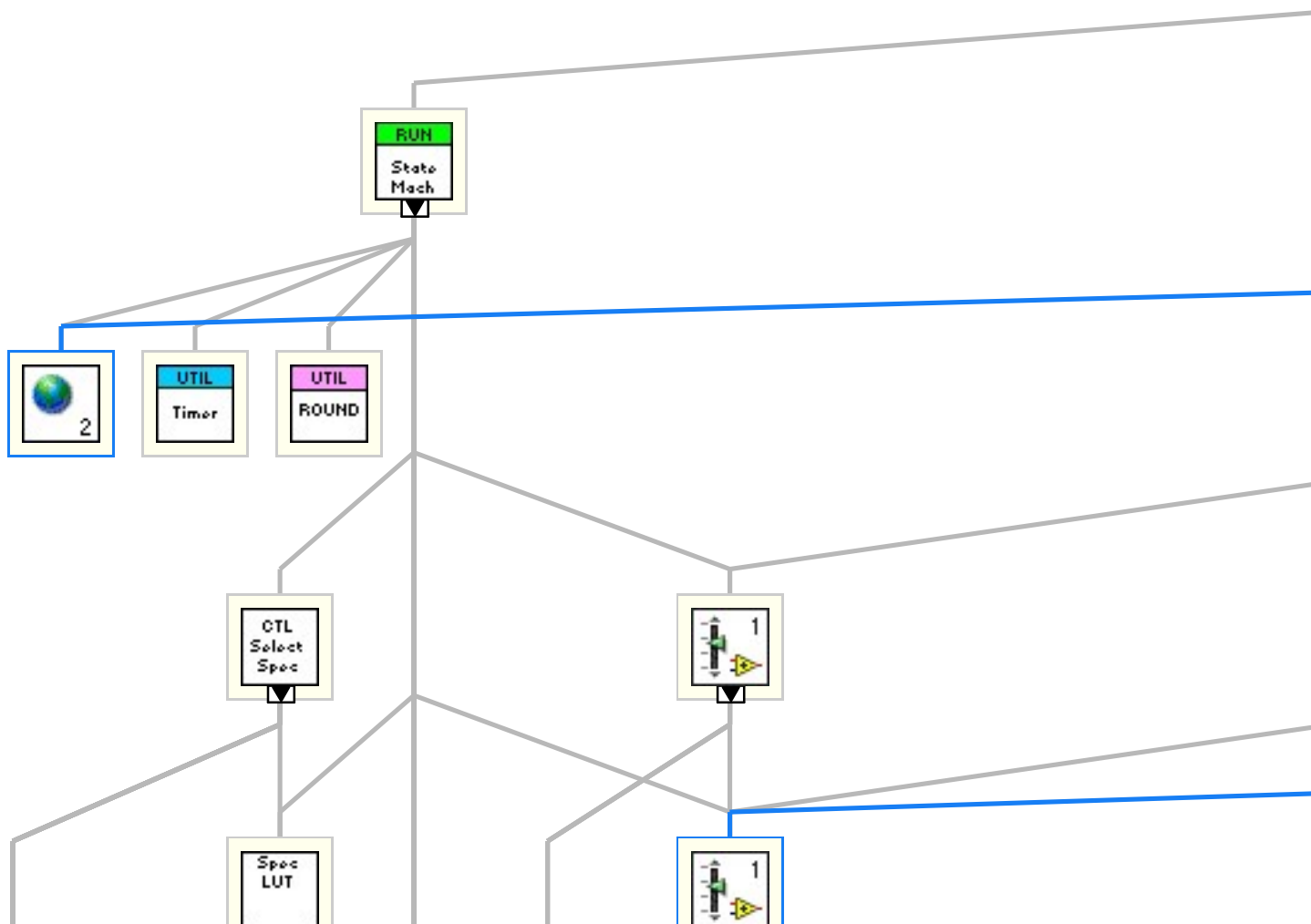Printed on 1/27/2025 at 10:51 AM

Reg Cal Constants
Valid
Measure High
Laser High
Measure Low
Laser Low
Cal Name
Cal Date
9/24/2024 9:
Empty Inches
8
Full Inches
2.6

Default Cal Table
Level
LSe
8
LKe
1.775
LMe
7.844
LKf
6.112
LMf
3.511
LSf
2.6

DataQ CH
1
RqLA
0.577
RmLA
101.1
RqHA
5.116
RmHA
903.4

Cal Coef
Level
M
-0.999
B
9.6173
Mc
-1.000
Bc
9.6262
LMe
7.844

Dataq Ch
0
M
175.40
B
-0.342

Level

SimPV

Calibration & Scaling Table
	Tank Scale	Key Level	Ref Measure
Empty	8.0	1.7752	7.844
Full	2.6	6.112	3.511

Time(ms)
1249.45
End Prog

DUT
1

TEST Name
OLR001--cal

CHA	Resistance	Fill	Resistance	Drain	CHB	Resistance	Fill	Resistance	Drain

Normal
0

Check
ChA +100
ChB +100

Simulated Resistor In
ChA
ChB
DataQ
1200
1200
500
500
0
0

100.8
100.0
7.715

Run Test
START
STOP

TEST State Out
MANUAL

Level
DataQ

Time Stamp
10:50:16.271
10/1/2024

Test Index Out
0

Laser (raw)
1.904

Level SP
2
4
6
8.5
8.000

Level PV
2
4
6
8.5
7.715

Pump JOG
Sim

PUMP
FILL   DRAIN
Pump Speed
FAST

Test Info
Job Number	Unit Number	Serial Number	Technician Name

Calibration Date	Calibrator	Calibration Slope	Calibration Offset
Cal Date	Cal by	M	B

Config File Name
Cal Date

Root Path
...\PWC-OLS

PumpCtlRef out
Fill
Pump Speed
Drain
Run Test
Level SP
Sim
Level PV
Jog

Pump Out
Status
0
0: Safe Start Violation
1: Required Channel Invalid
2: Serial Error
3: Command Timeout
4: Limit/Kill Switch
5: Low VIN
6: High VIN
7: Over Temperature
8: Motor Driver Error
9: ERR Line High

Match
0

Rx Speed

Tx

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
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TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
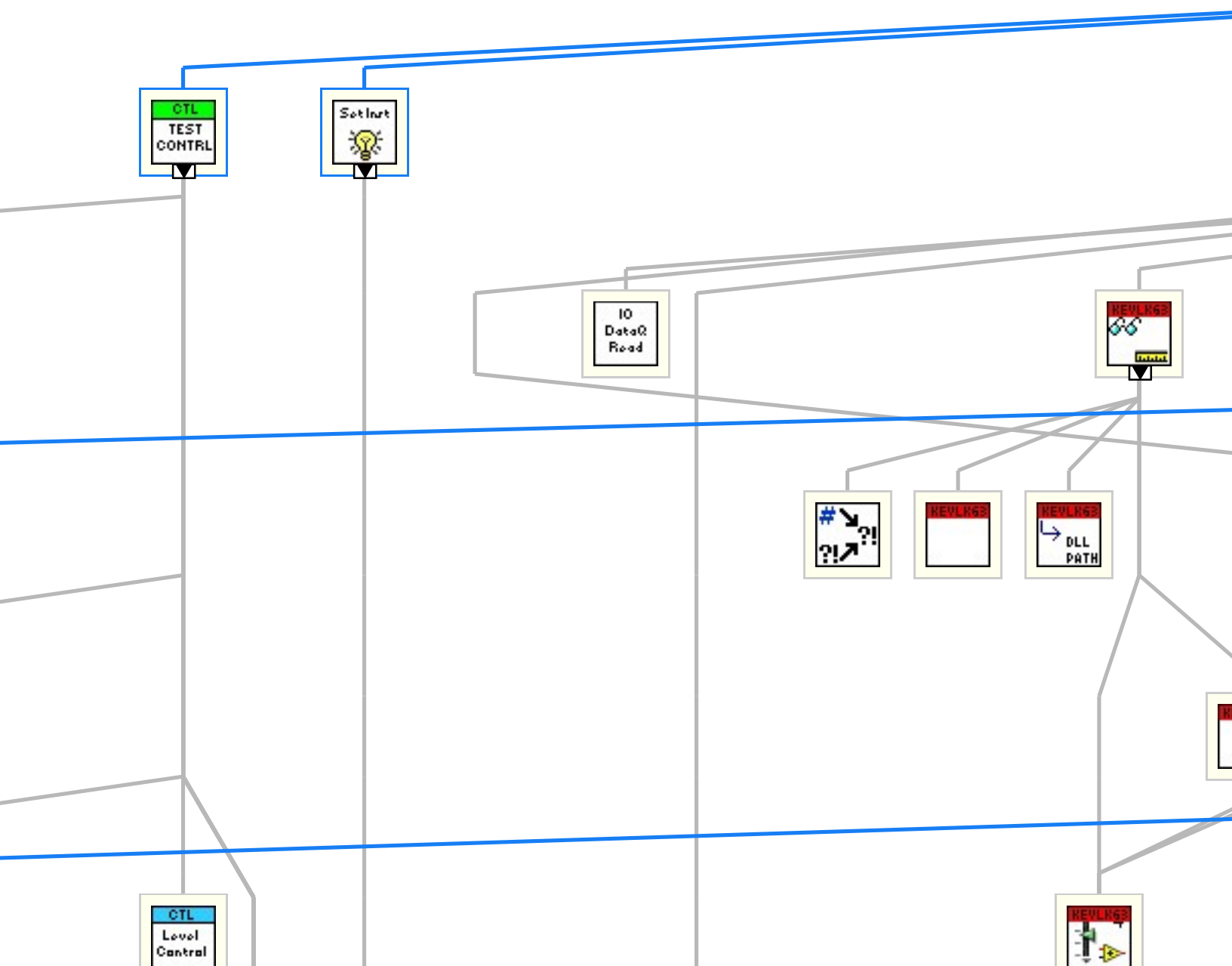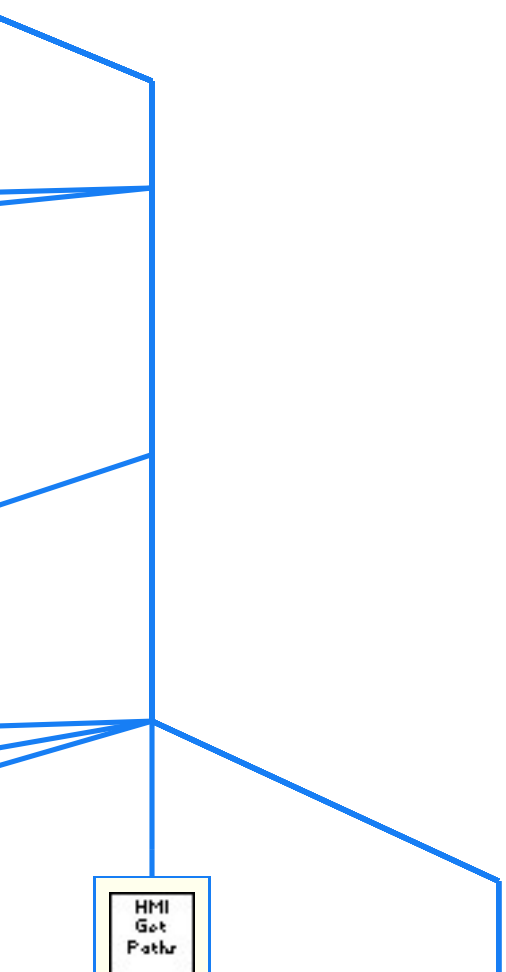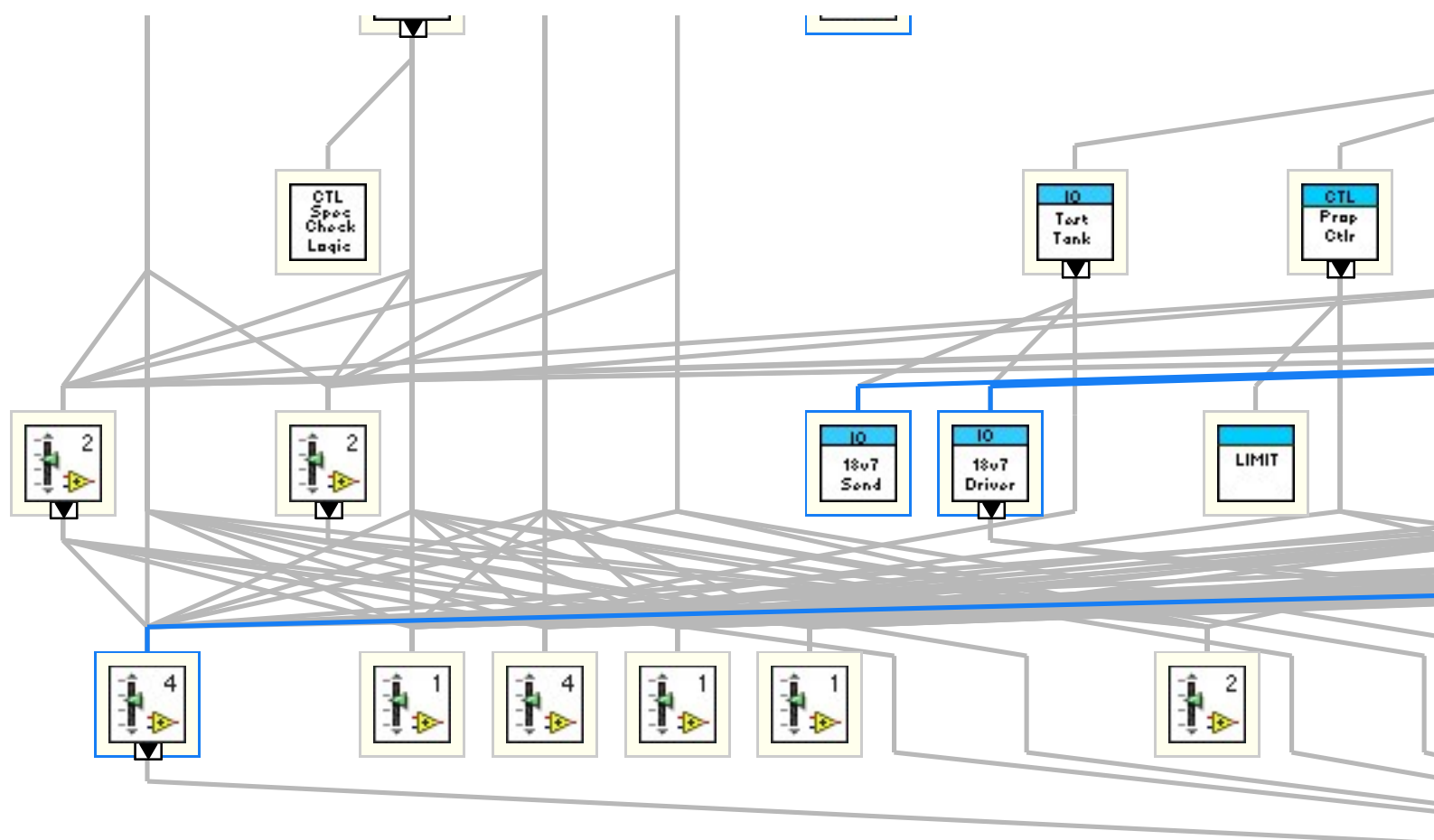Last modified on 1/27/2025 at 10:38 AM
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False

Time Stamp

Set Inst

End Prog
End Prog

G-Stop
Val(Sgnl)

Test Done

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
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RUN
State
Mach

2

UTIL
Timer

UTIL
ROUND

CTL
Select
Spec

1

Spec
LUT

1

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
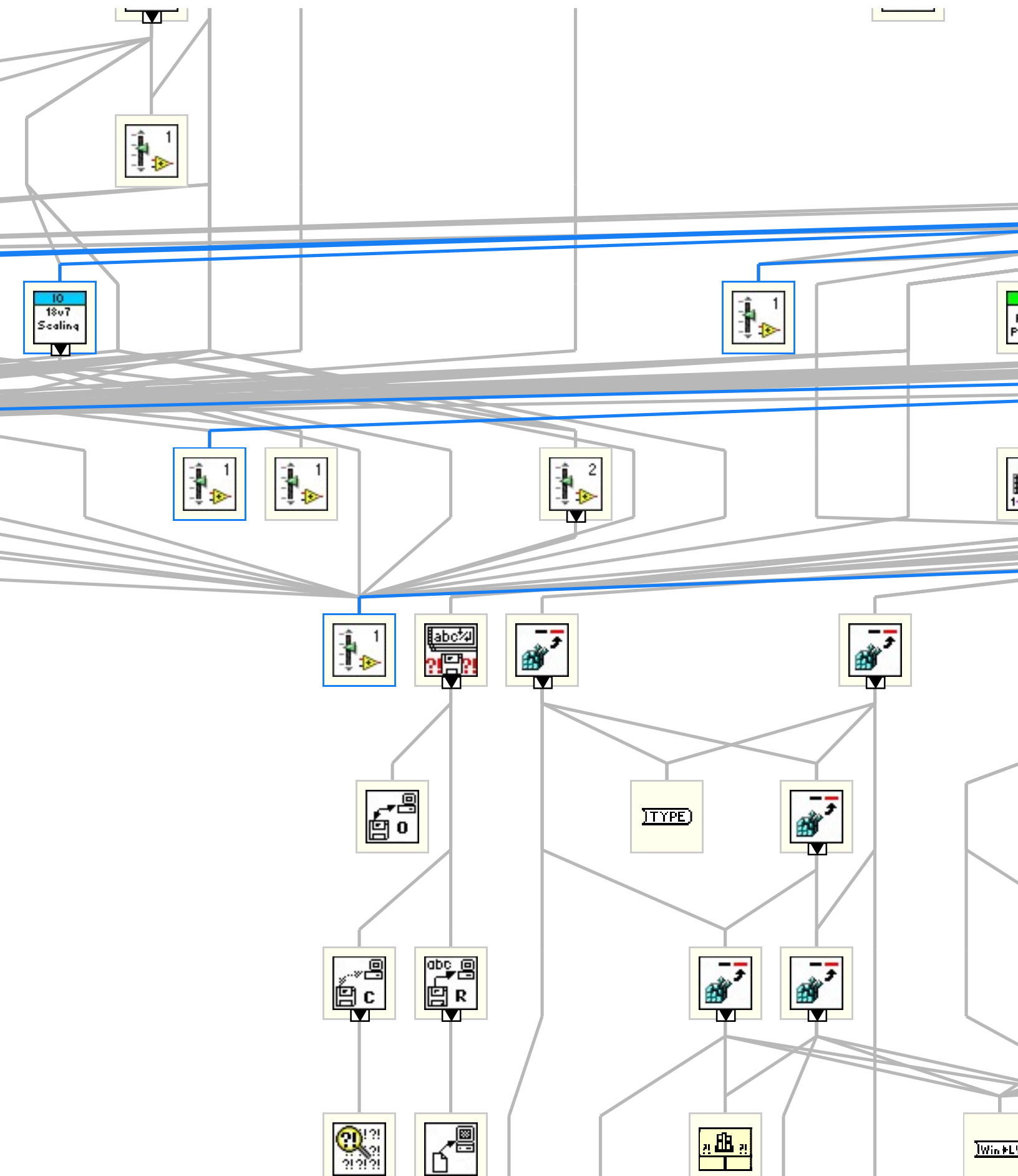Last modified on 1/27/2025 at 10:38 AM
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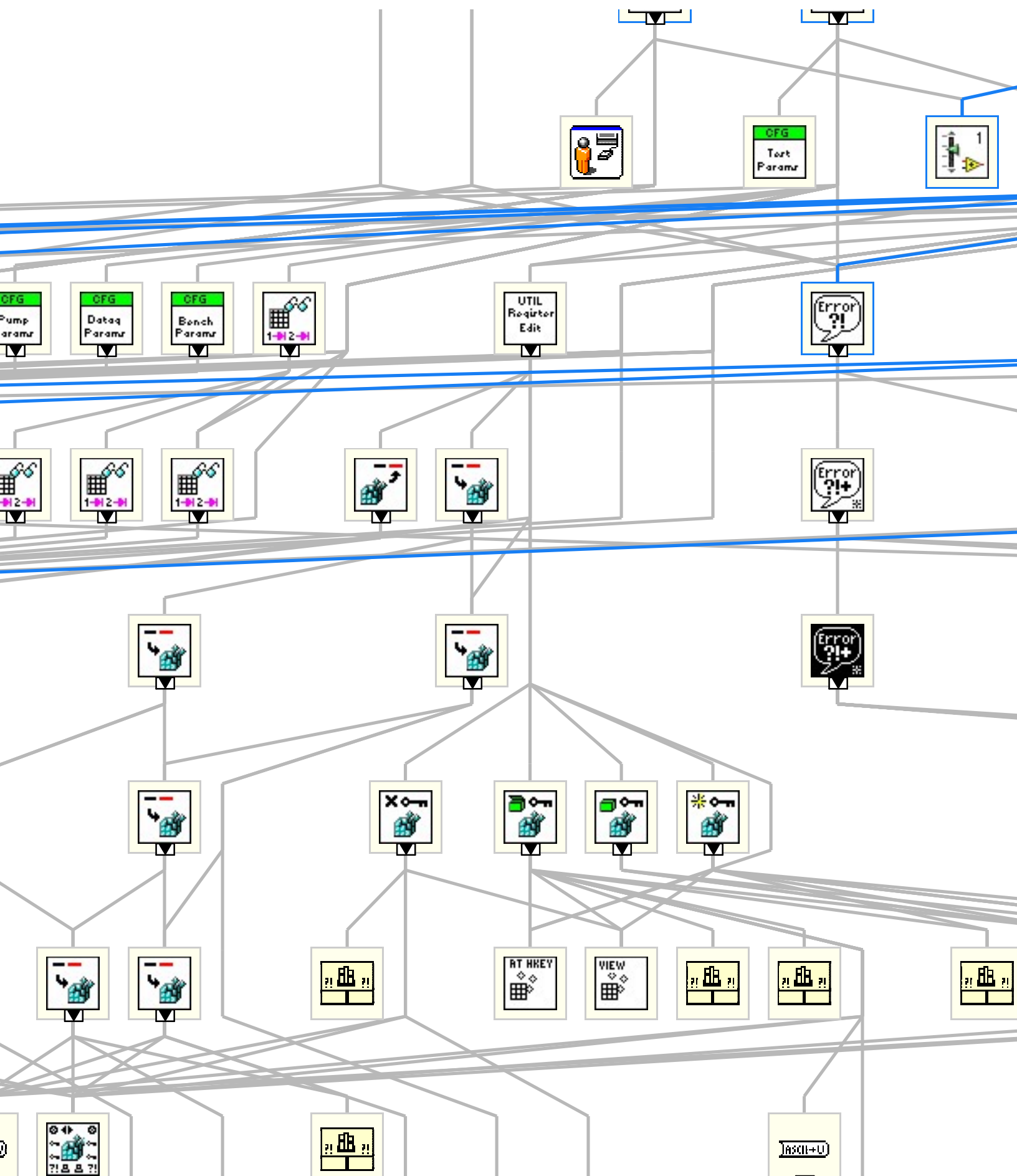UTIL
Time
Base

1

IO
18v7
CLOSE

DataQ
Clare

UTIL
Round
to 100

Calculate
Level

3

IO
18v7
Open

IO_
DATAQ_
READ A
IN

REVLK63
Get
Level

UTIL
Get Cal
Coef

DataQ
Write
D Out

DATAQ
Initialize

DataQ
Config

VISA
SERIAL

3

UTIL
Calc Cal
Coef

IO DataQ
Command
w/Retry

2

UTIL
Cal
Level

VISA
SERIAL

VISA
SERIAL

1

REVLK63

1

HMI
PARSE
INFO

INIT
OPEN
CONFIG
FILE

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
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HMI
Get
Path

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
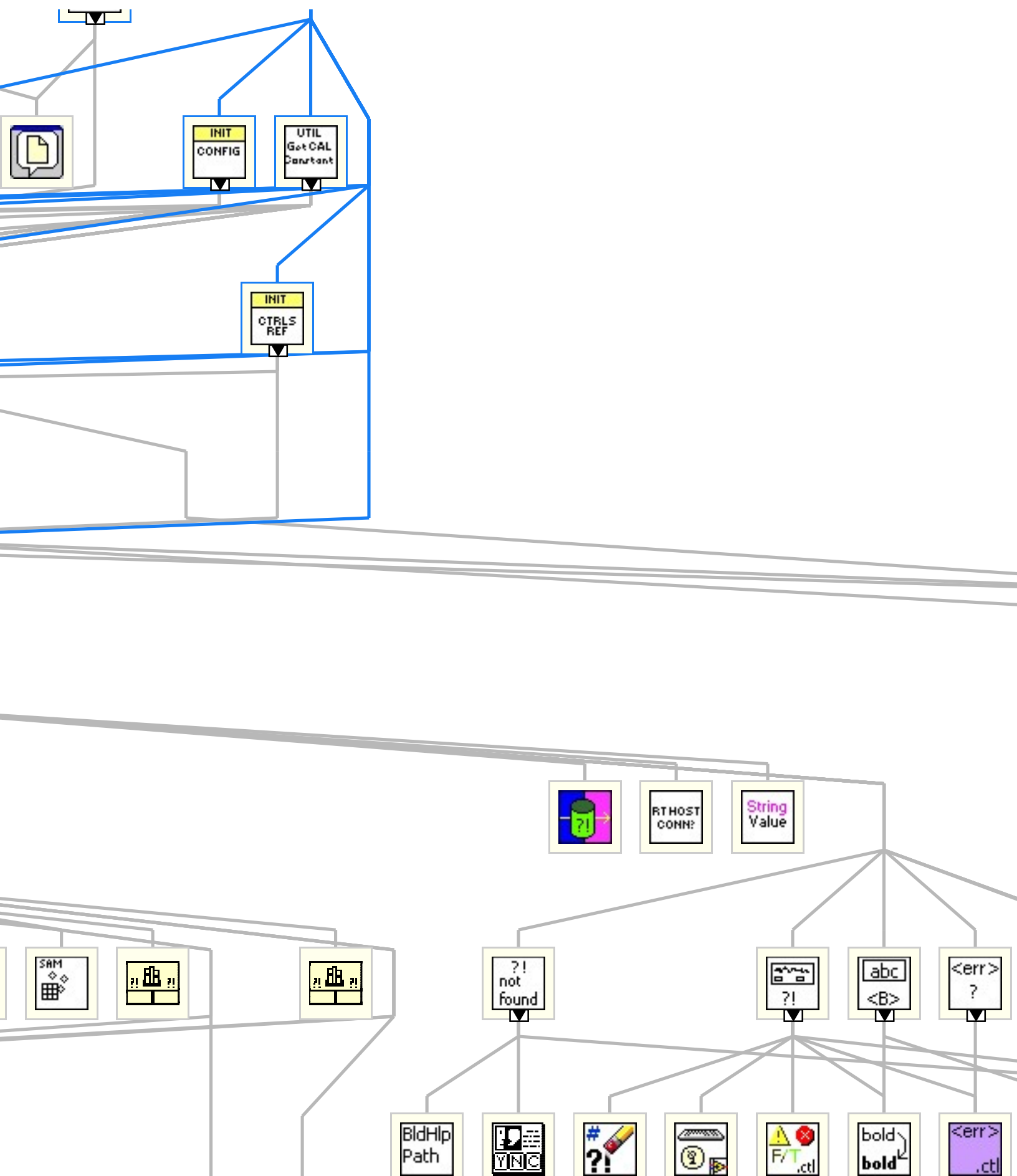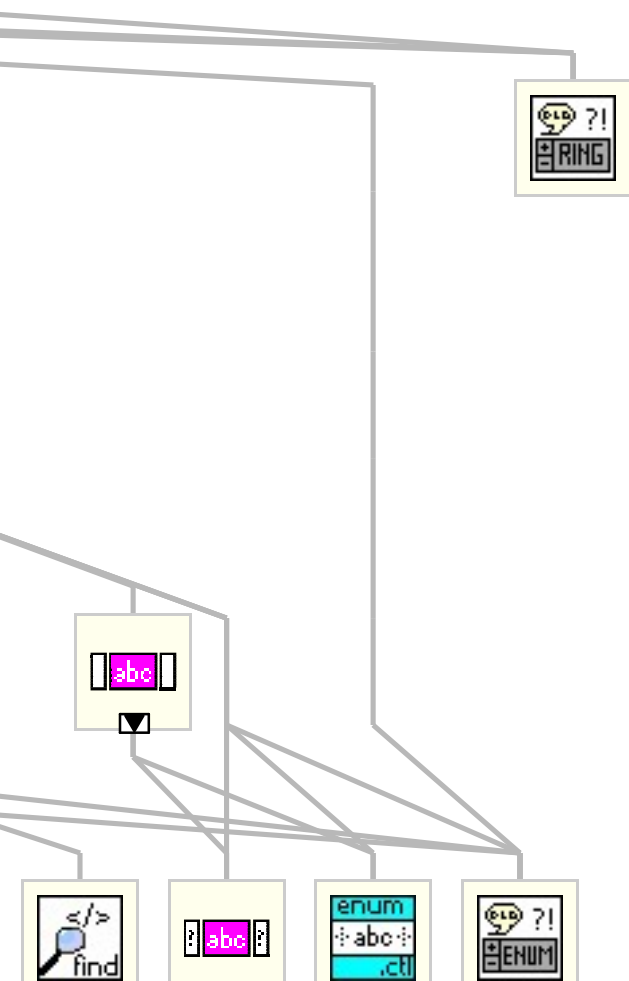Printed on 1/27/2025 at 10:51 AM

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INIT
CONFIG

UTIL
Get CAL
Constant

INIT
CTRLS
REF

RT HOST
CONN?

String
Value

SAM

?!
not
found

?!

abc
<B>

<err>
?

BldHlp
Path

YNC

#

F/T
.ctl

bold
bold

<err>
.ctl

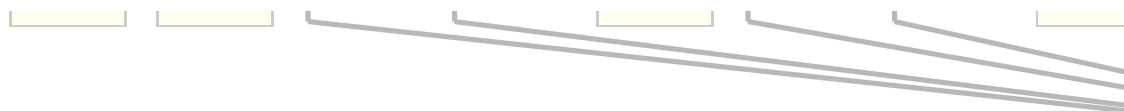TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
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C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
Printed on 1/27/2025 at 10:51 AM

HMI_GetPaths.vi
C:\AllenProjects\PWC-OLS\User Interface\HMI_GetPaths.vi

INIT_Control Panel Refs.vi
C:\AllenProjects\PWC-OLS\Initialization\INIT_Control Panel Refs.vi

Global 1.vi
C:\AllenProjects\PWC-OLS\Control Definitions\Global 1.vi

Def_ATPStatus.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Def_ATPStatus.ctl

Def Results3.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Def Results3.ctl

Registry Keys.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Registry Keys.ctl

Def_LevelCalCoef.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Def_LevelCalCoef.ctl

Def CalCoef.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Def CalCoef.ctl

Def CalTable.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Def CalTable.ctl

DEF_CalConstants.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\DEF_CalConstants.ctl

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
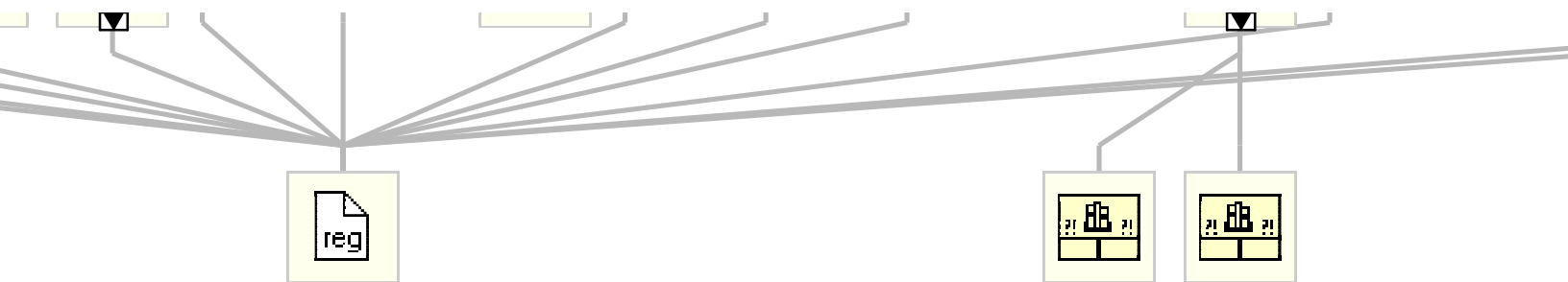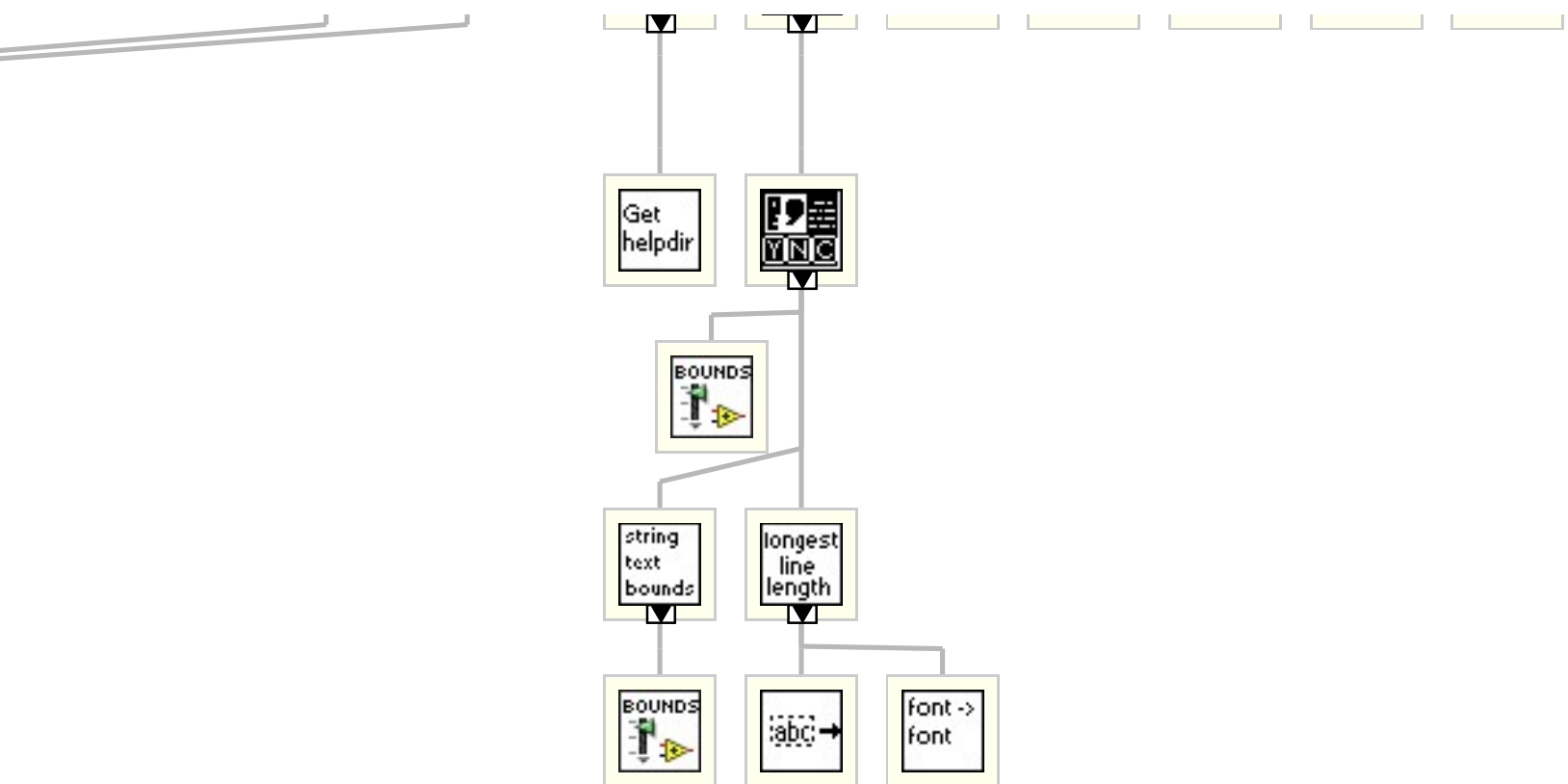Last modified on 1/27/2025 at 10:38 AM
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TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
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reg

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
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Get
helpdir

YNC

BOUNDS

string
text
bounds

longest
line
length

BOUNDS

abc

font ->
font

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
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TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
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$IO_17v7Close.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\$IO_17v7Close.vi

$IO_18v7Open.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\$IO_18v7Open.vi

IO_DataQ_Close.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\IO_DataQ_Close.vi

UTIL_GetCalConstants.vi
C:\AllenProjects\PWC-OLS\Utility\UTIL_GetCalConstants.vi

IO_Dataq_GetResistance_Din.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\IO_Dataq_GetResistance_Din.vi

UTIL_Round_100.vi
C:\AllenProjects\PWC-OLS\Utility\UTIL_Round_100.vi

CTL_SimLevelSensor.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\CTL_SimLevelSensor.vi

IO_Level_Sensor.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\IO_Level_Sensor.vi

UTIL_CalLevel.vi
C:\AllenProjects\PWC-OLS\Utility\UTIL_CalLevel.vi

UTIL_GetCalCoef.vi
C:\AllenProjects\PWC-OLS\Utility\UTIL_GetCalCoef.vi

IO_DataQ_WriteDOut.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\IO_DataQ_WriteDOut.vi

IO_DataQ_Init.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\IO_DataQ_Init.vi

IO_DataQ_Config.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\IO_DataQ_Config.vi

Global 2.vi
C:\AllenProjects\PWC-OLS\Control Definitions\Global 2.vi

Def_PumpSpeed.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Def_PumpSpeed.ctl

Simple Error Handler.vi
C:\Program Files (x86)\National Instruments\LabVIEW 2024\vi.lib\Utility\error.llb\Simple Error Handler.vi

$IO_18v7Scaling.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\$IO_18v7Scaling.vi

TEST_TestContoller.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\TEST_TestContoller.vi
Last modified on 1/27/2025 at 10:38 AM
Printed on 1/27/2025 at 10:51 AM

Def_Status18v7.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Def_Status18v7.ctl

$IO_18v7Driver.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\$IO_18v7Driver.vi

$IO_18v7Send.vi
C:\AllenProjects\PWC-OLS\Hardware Interface\$IO_18v7Send.vi

CTL_TestController.vi
C:\AllenProjects\PWC-OLS\Control Algorithm\CTL_TestController.vi

DEF_PumpCtlRefs.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\DEF_PumpCtlRefs.ctl

Def TestState.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\Def TestState.ctl

UTIL_Timebase.vi
C:\AllenProjects\PWC-OLS\Utility\UTIL_Timebase.vi

UTIL_SetStatusColor.vi
C:\AllenProjects\PWC-OLS\Utility\UTIL_SetStatusColor.vi

UI_Start Test Wizard.vi
C:\AllenProjects\PWC-OLS\User Interface\UI_Start Test Wizard.vi

DEF_TestInfo.ctl
C:\AllenProjects\PWC-OLS\Control Definitions\DEF_TestInfo.ctl

INIT Parse Test Config.vi
C:\AllenProjects\PWC-OLS\Initialization\INIT Parse Test Config.vi

INIT_Read Test Config File.vi
C:\AllenProjects\PWC-OLS\Initialization\INIT_Read Test Config File.vi