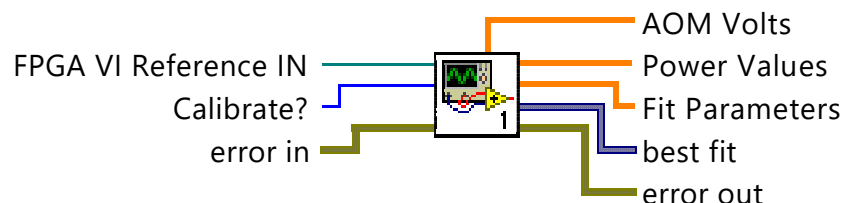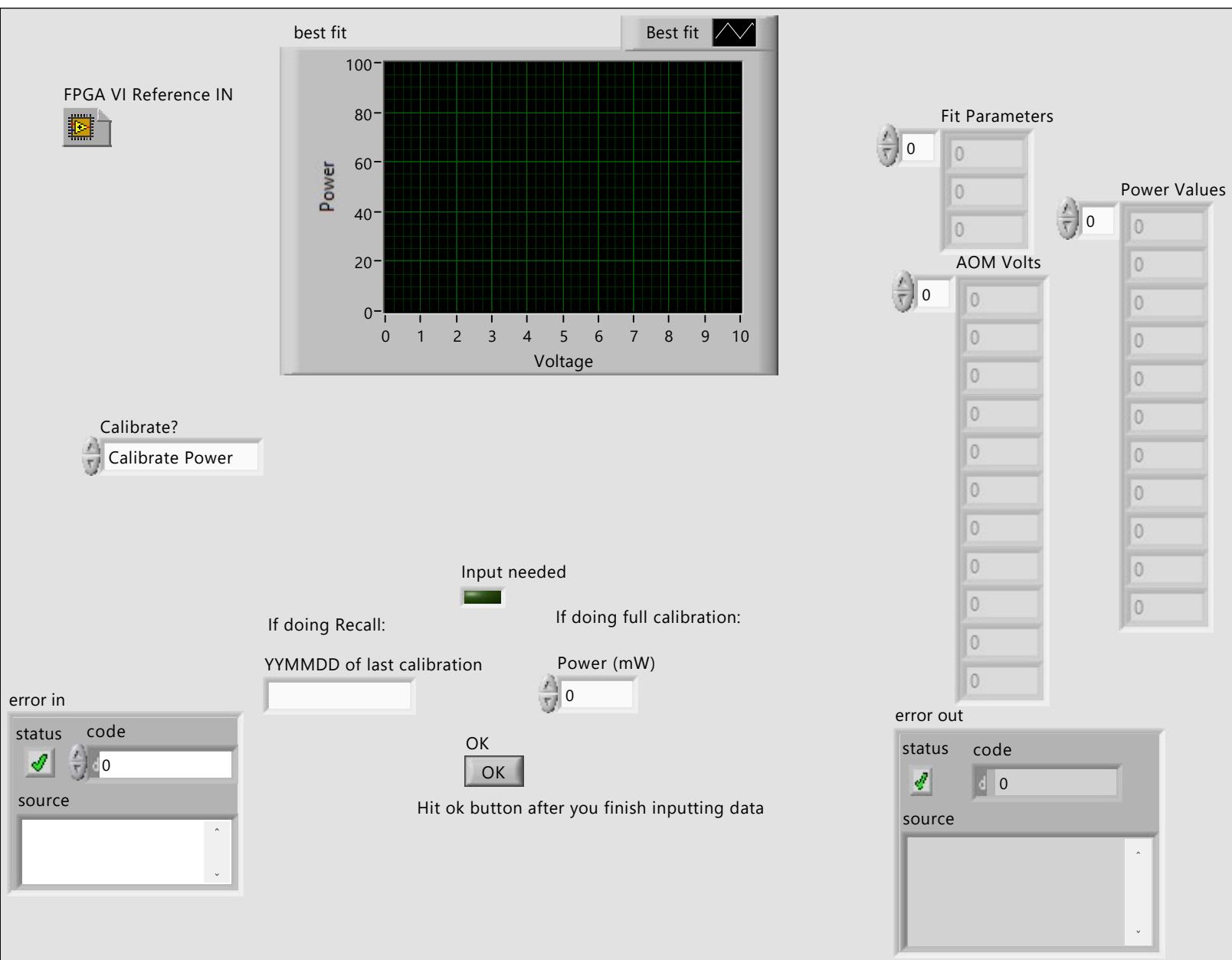Calibrate_power.vi
Q:\GitHub\DyminSTED4all\LabviewCode\Calibrate_power.vi
Last modified on 8/16/2023 at 6:06 PM
Printed on 12/8/2023 at 12:25 PM

**Calibrate_power.vi**

AOM Volts
FPGA VI Reference IN
Power Values
Calibrate?
Fit Parameters
error in
best fit
error out

best fit

Best fit

FPGA VI Reference IN

Fit Parameters

100
80
60
Power
40
20
0

0  1  2  3  4  5  6  7  8  9  10

Voltage

Power Values

0
0
0

AOM Volts

0

0

Calibrate?

Calibrate Power

Input needed

If doing Recall:

If doing full calibration:

YYMMDD of last calibration

Power (mW)

0

error in

status    code

0

source

OK

OK

Hit ok button after you finish inputting data

error out

status    code

d    0

source

**error in**
<B>error in</B> can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

Right-click the <B>error in</B> control on the front panel and select <B>Explain Error</B> or <B>Explain Warning</B> from the shortcut menu for more information about the error.

Calibrate_power.vi
Q:\GitHub\DyminSTED4all\LabviewCode\Calibrate_power.vi
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**status**
<B>status</B> is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

Right-click the <B>error in</B> control on the front panel and select <B>Explain Error</B> or <B>Explain Warning</B> from the shortcut menu for more information about the error.

**code**
<B>code</B> is the error or warning code.

Right-click the <B>error in</B> control on the front panel and select <B>Explain Error</B> or <B>Explain Warning</B> from the shortcut menu for more information about the error.

**source**
<B>source</B> describes the origin of the error or warning.

Right-click the <B>error in</B> control on the front panel and select <B>Explain Error</B> or <B>Explain Warning</B> from the shortcut menu for more information about the error.

**Power (mW)**

**OK**

**YYMMDD of last calibration**

**FPGA VI Reference IN**

**Calibrate?**

**error out**
<B>error out</B> passes error or warning information out of a VI to be used by other VIs.

Right-click the <B>error out</B> indicator on the front panel and select <B>Explain Error</B> or <B>Explain Warning</B> from the shortcut menu for more information about the error.

**status**

**code**

**source**

**best fit[best fit]**
Returns the fitted data.

**Fit Parameters**

**Input needed**

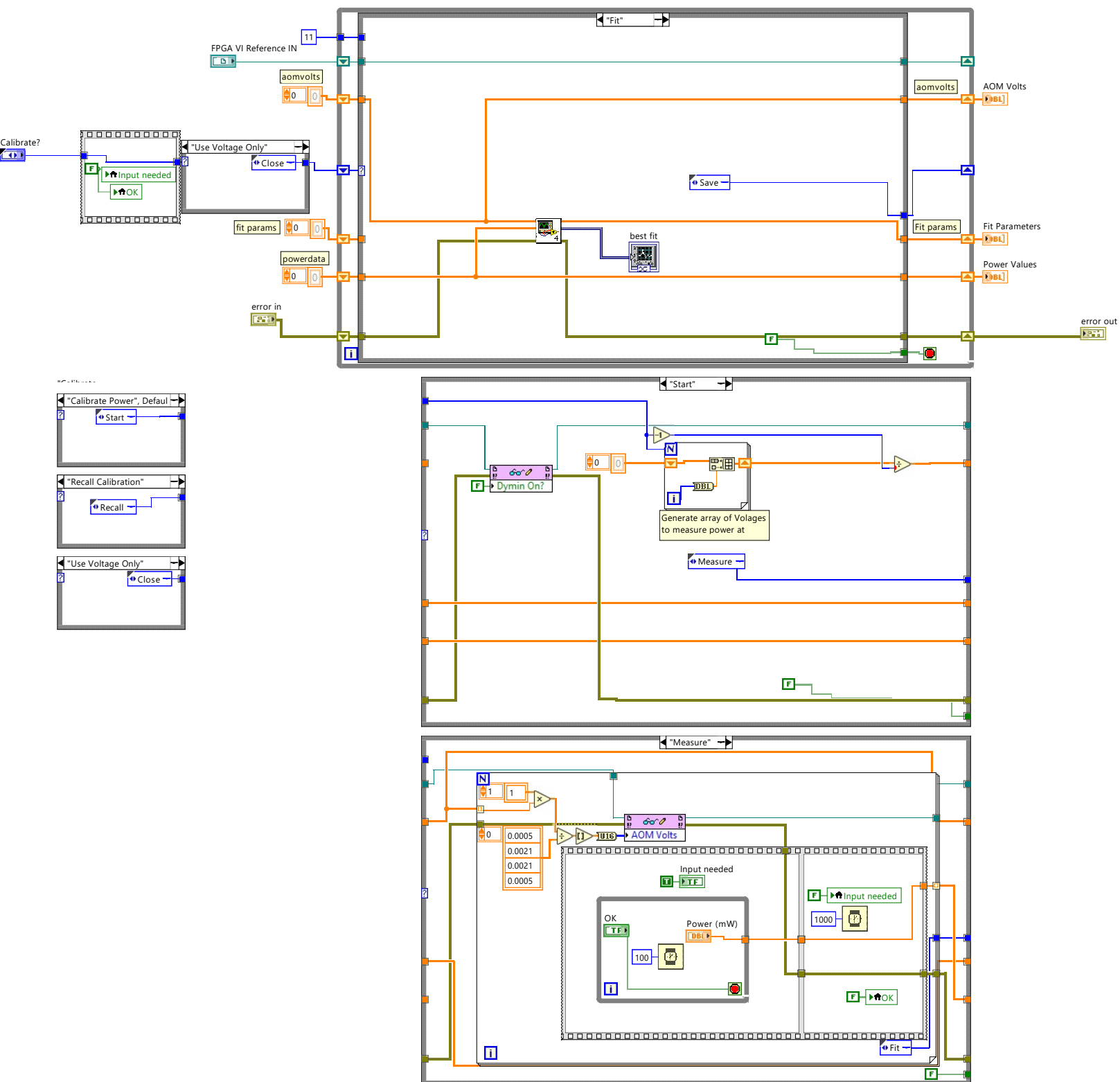**AOM Volts**

**Power Values**

**Power**

Calibrate_power.vi
Q:\GitHub\DyminSTED4all\LabviewCode\Calibrate_power.vi
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"Fit"

Save

best fit



"Save"

/C/CalibrationFits

/C/CalibrationFits

FitParameters

PowerValues

%y%m%d

%y%m%d

.txt

.txt

Close



"Recall"

/C/CalibrationFits

/C/CalibrationFits

PowerValues

FitParameters

.txt

YYMMDD of last calibration

OK

Input needed

.txt

Double

Double

100

Close

Calibrate_power.vi
Q:\GitHub\DyminSTED4all\LabviewCode\Calibrate_power.vi
Last modified on 8/16/2023 at 6:06 PM
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Calibrate_power.vi
Q:\GitHub\DyminSTED4all\LabviewCode\Calibrate_power.vi
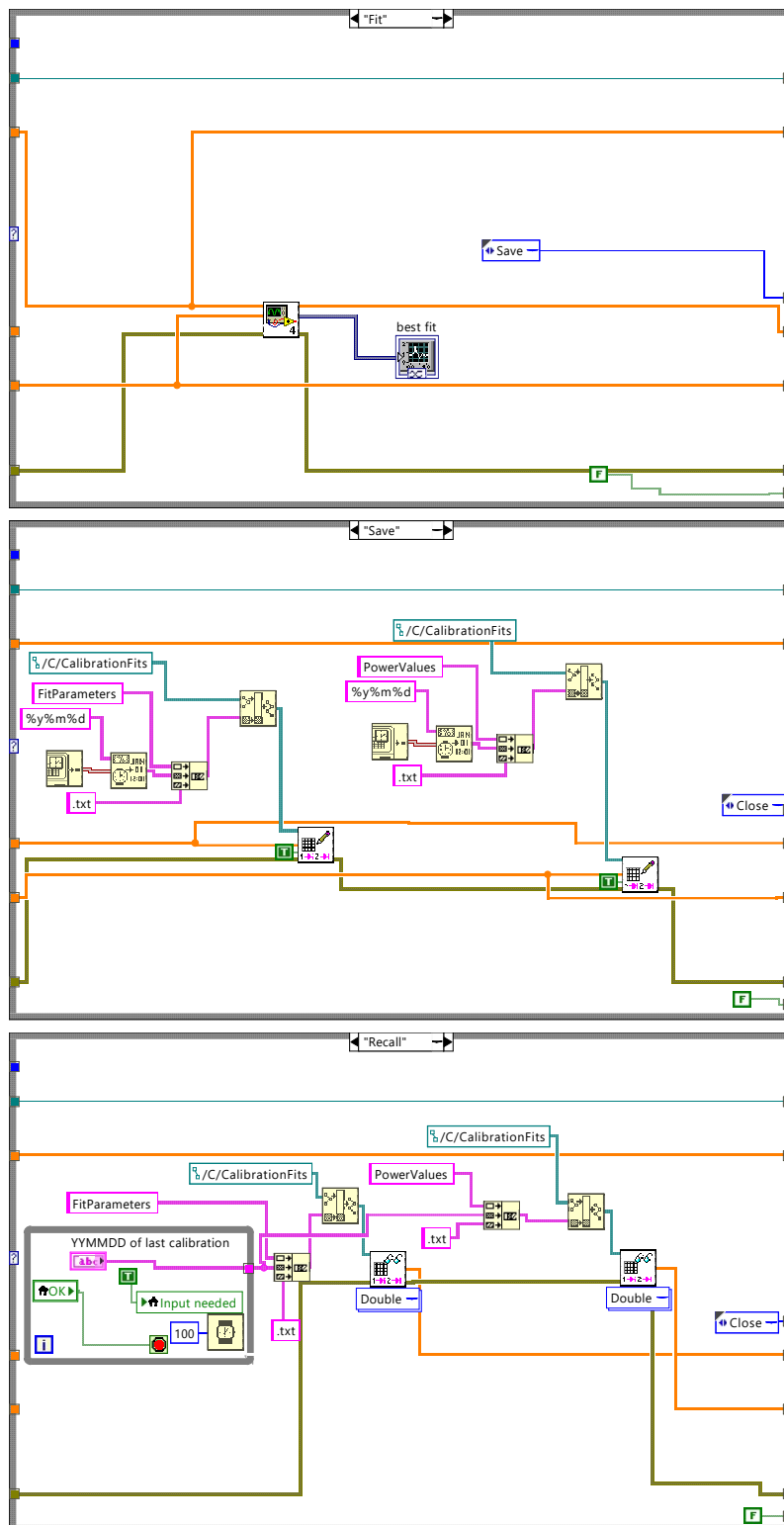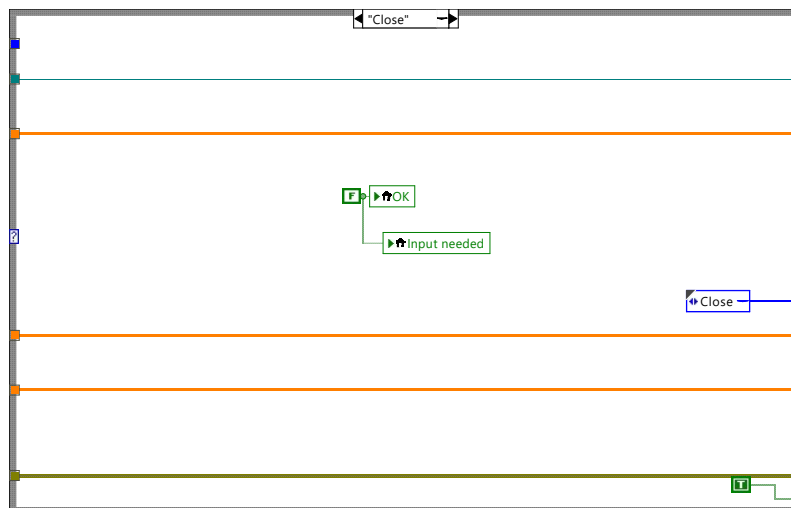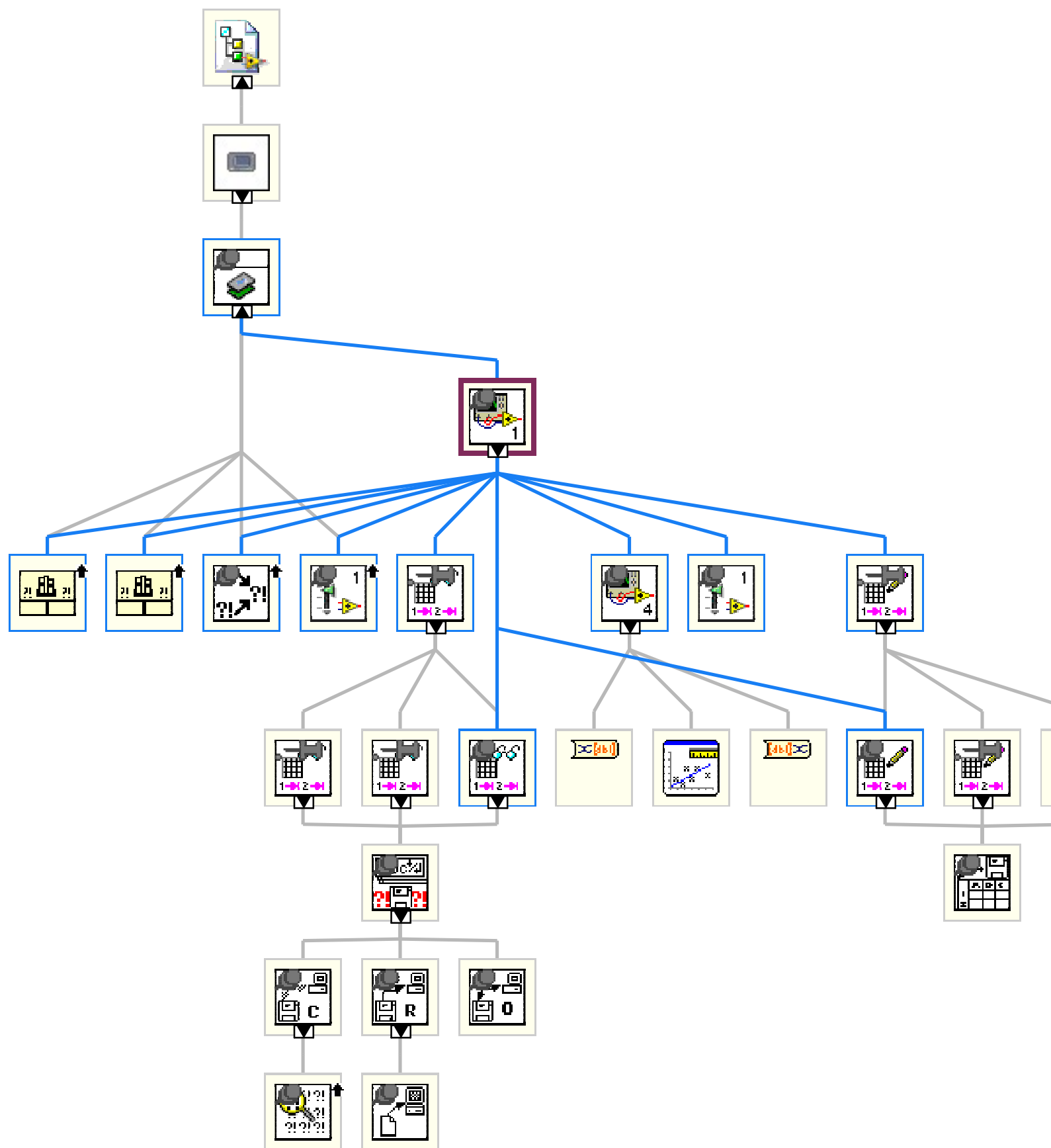Last modified on 8/16/2023 at 6:06 PM
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**Read Delimited Spreadsheet (DBL).vi**
C:\Program Files (x86)\National Instruments\LabVIEW 2016\vi.lib\Utility\file.llb\Read Delimited
Spreadsheet (DBL).vi

Calibrate_power.vi
Q:\GitHub\DyminSTED4all\LabviewCode\Calibrate_power.vi
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Last modified on 8/16/2023 at 6:06 PM
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**Read Delimited Spreadsheet.vi**
C:\Program Files (x86)\National Instruments\LabVIEW 2016\vi.lib\Utility\file.llb\Read Delimited
Spreadsheet.vi

**Write Delimited Spreadsheet (DBL).vi**
C:\Program Files (x86)\National Instruments\LabVIEW 2016\vi.lib\Utility\file.llb\Write Delimited
Spreadsheet (DBL).vi

**Write Delimited Spreadsheet.vi**
C:\Program Files (x86)\National Instruments\LabVIEW 2016\vi.lib\Utility\file.llb\Write Delimited
Spreadsheet.vi

**Fit_powervsVolts.vi**
Q:\GitHub\DyminSTED4all\LabviewCode\Fit_powervsVolts.vi

**Error Cluster From Error Code.vi**
C:\Program Files (x86)\National Instruments\LabVIEW 2016\vi.lib\Utility\error.llb\Error Cluster From Error
Code.vi

**Calibrate_enum.ctl**
Q:\GitHub\DyminSTED4all\LabviewCode\Calibrate_enum.ctl

**Calibrate_control.ctl**
Q:\GitHub\DyminSTED4all\LabviewCode\Calibrate_control.ctl