

AD9361_with_ZedBoard Tutorial II

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Terminal File Edit View Search Terminal Help
Doxyfile scan.c
Doxyfile.in serial.c
examples sort.c
foo sort.h
generateDocumentationAndDeploy.sh tests
html usb.c
iio-config.h utilities.c
iio-config.h.cmakein xml
iiod xml.c
sdr@sdr-Samsung-DeskTop-System:~/sw/libiio$ cd ..
sdr@sdr-Samsung-DeskTop-System:~/sw$ ls
addon_matlab  iso      matlab_2018  opencv  rfsdk      sdk
cuda          libiio  modelsim    qwt     road_data  vmware
sdr@sdr-Samsung-DeskTop-System:~/sw$ git clone https://github.com/analogdevicesinc/MathWorks_tools.git
Cloning into 'MathWorks_tools'...
remote: Enumerating objects: 70, done.
remote: Counting objects: 100% (70/70), done.
remote: Compressing objects: 100% (46/46), done.
remote: Total 7224 (delta 31), reused 53 (delta 24), pack-reused 7154
Receiving objects: 100% (7224/7224), 96.82 MiB | 455.00 KiB/s, done.
Resolving deltas: 100% (4105/4105), done.
Checking connectivity... done.
sdr@sdr-Samsung-DeskTop-System:~/sw$
```

HOME PLOTS APPS EDITOR PUBLISH VIEW

New Open Save Find Files Compare Print Go To Find Insert Comment Indent Breakpoints Run Run and Advance

FILE NAVIGATE EDIT BREAKPOINTS

home > sdr > sw > MathWorks_tools > hil_models > fmcomms2_3_data_stream

Current Folder

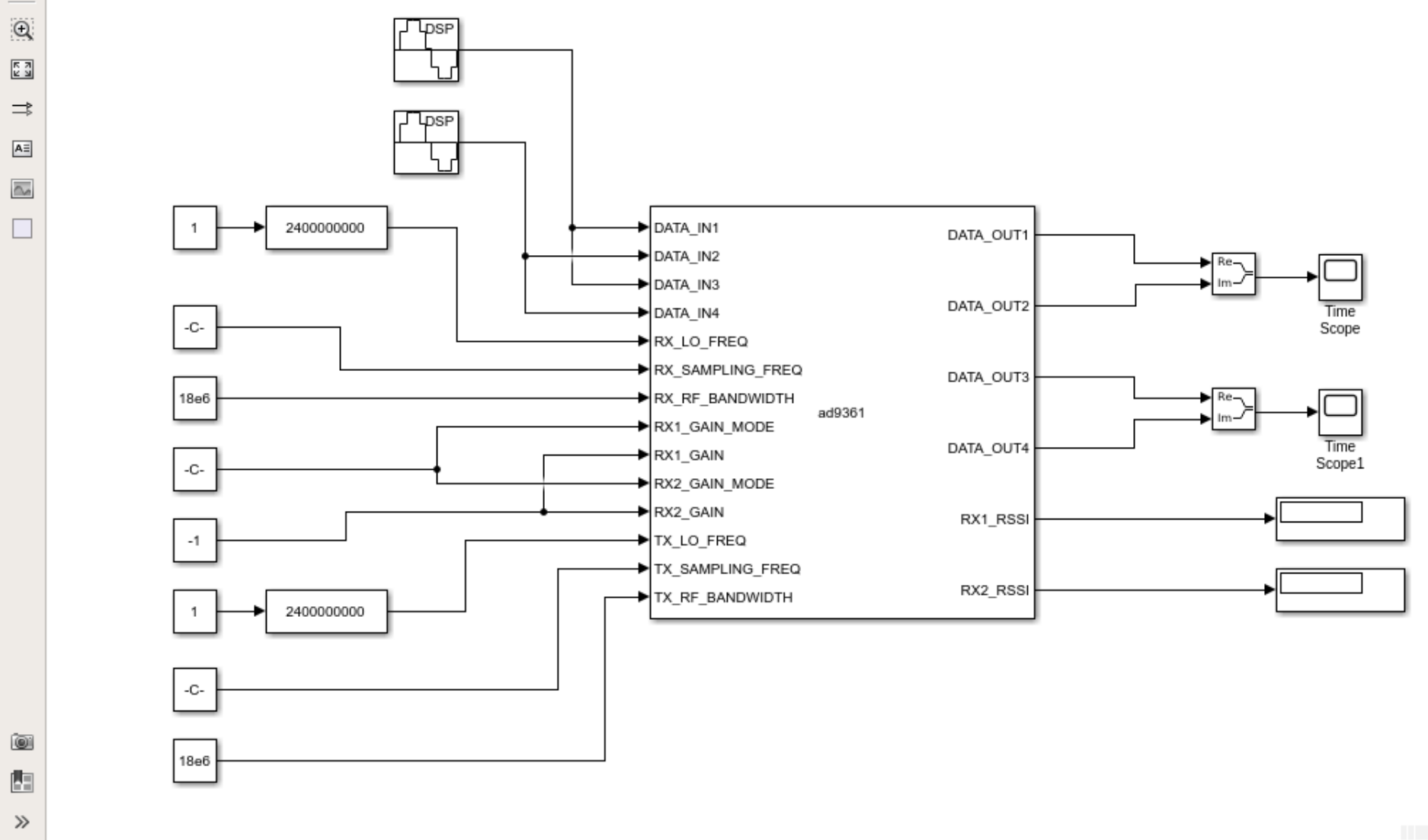
Name	Git
ad9361_matlab.m	●
ad9361_sim.slx	●
ad9361.cfg	●

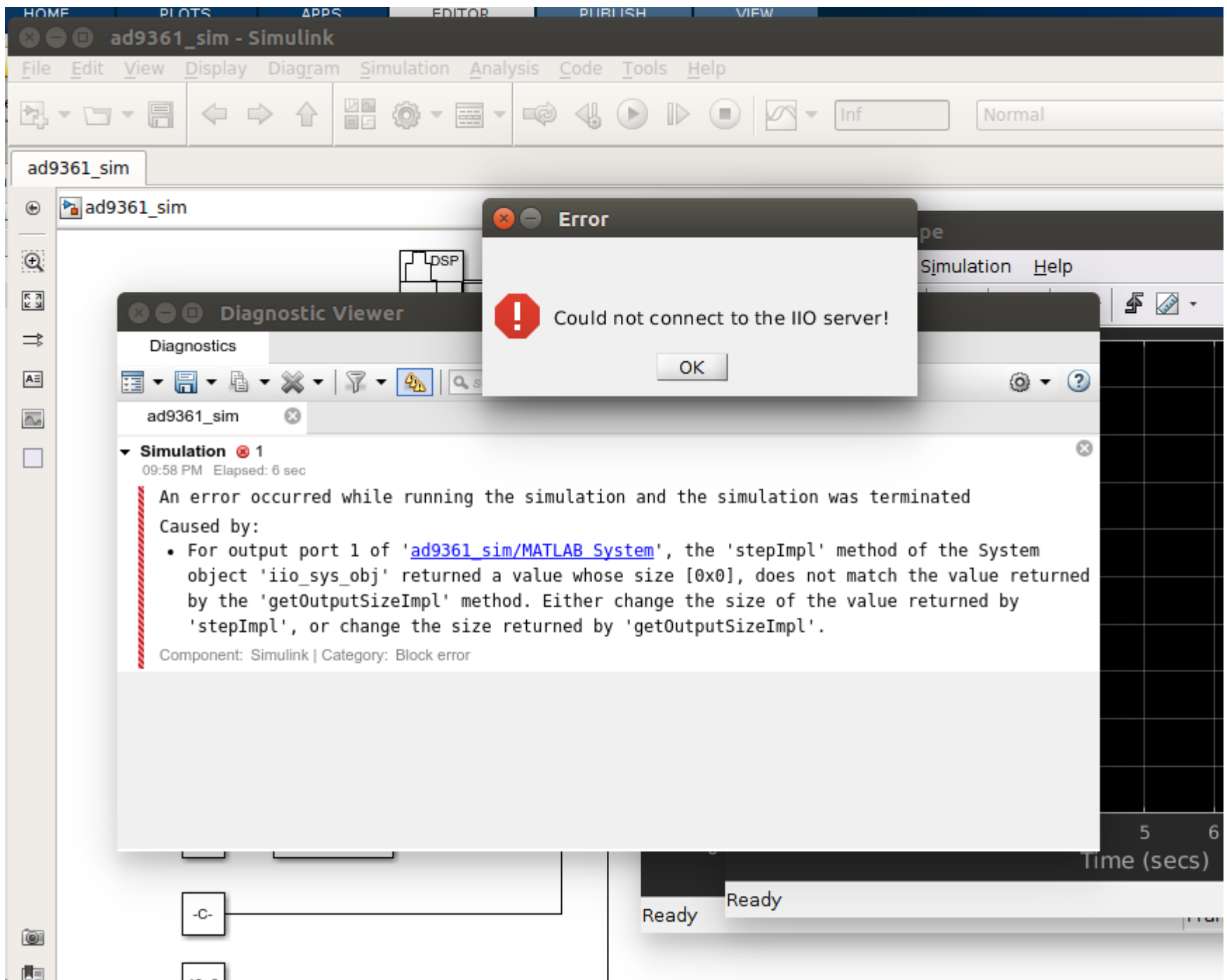
Editor - /home/sdr/matlab_exam/ad9361_m

```
ad9361_matlab.m x iio_sys_obj_matlab.m
28 - input{s.in_ch_no+8} = 2.4e9;
29 - input{s.in_ch_no+9} = 30.72e6;
30 - input{s.in_ch_no+10} = 18.0e6;
31
32 - output = cell(1, s.out_ch_no + 1);
33
34 - for i = 1:5
35 -     output = stepImpl(s, input);
36 -     rssi1 = output{s.out_ch_no+1};
37 -     rssi2 = output{s.out_ch_no+2};
38 - end
39
40 - s.releaseImpl();
41
42 - figure % new figure
43 - ax1 = subplot(2,1,1); % top subp
44 - ax2 = subplot(2,1,2); % bottom s
45
46 - plot(ax1,output{1});
```

ad9361_sim

ad9361_sim





Error

! Could not connect to the IIO server!

OK

Diagnostic Viewer

Diagnostics

ad9361_sim

Simulation 1

09:58 PM Elapsed: 6 sec

An error occurred while running the simulation and the simulation was terminated

Caused by:

- For output port 1 of '[ad9361_sim/MATLAB System](#)', the 'stepImpl' method of the System object 'iio_sys_obj' returned a value whose size [0x0], does not match the value returned by the 'getOutputSizeImpl' method. Either change the size of the value returned by 'stepImpl', or change the size returned by 'getOutputSizeImpl'.

Component: Simulink | Category: Block error

ad9361_sim

Block Parameters: MATLAB System

iio_sys_obj

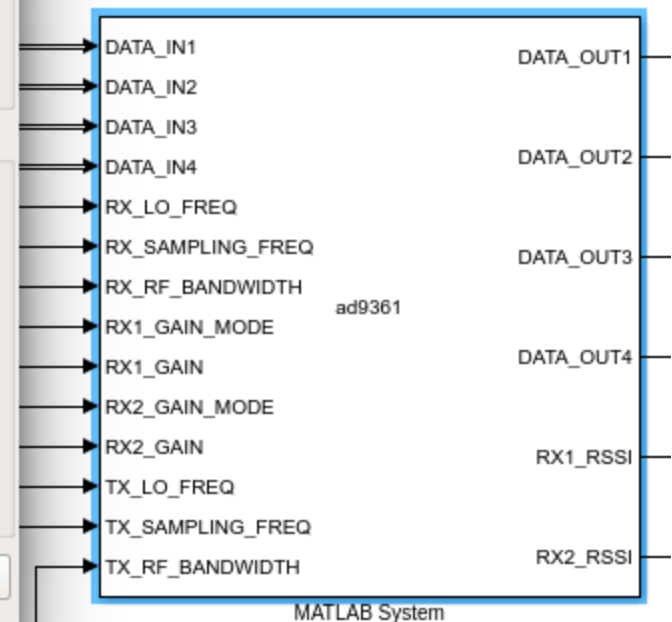
Copyright 2014-15(c) Analog Devices, Inc.
[Source code](#)

Parameters

IP address:	192.168.3.2
Device name:	ad9361
Number of input data channels:	4
Input data channel size [samples]:	32768
Number of output data channels:	4
Output data channel size [samples]:	8192

Simulate using: Interpreted execution

OK **Cancel** **Help** **Apply**



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