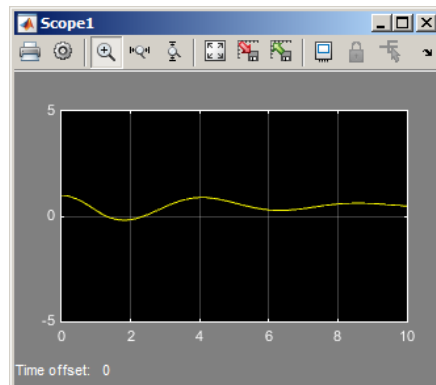


Printing Simulink Scope Image

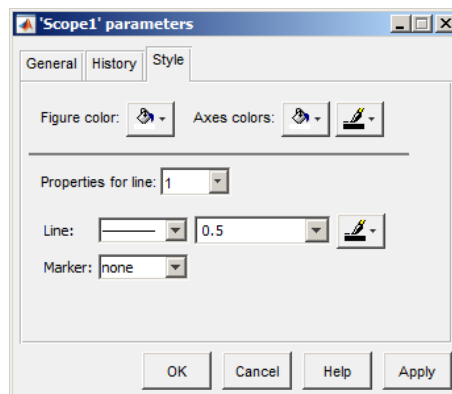
There might be some issues with reporting the results from Simulink. You would like to put images produced by the scope, or other plots, into an MS Word report. There are several ways you can do this. Read through the following and select the one you feel will give you the best result.

Method 1:

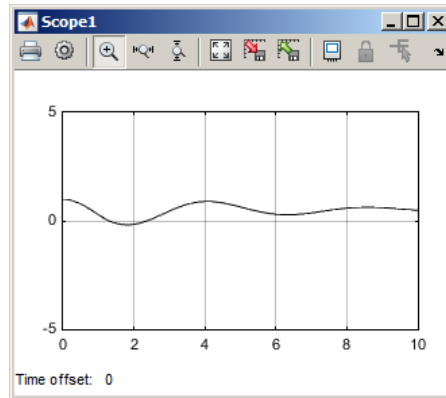
You can select the scope figure window, then hit **ALT+PrintScrn** to copy it to a clipboard, and paste it into an application.



You might want to change the colors before copying the scope image. Click the **Scope Parameters** icon (2nd one) and go to the **Style** tab. Change the Figure Color to black, Axes Colors to white background and black writing, and Line Color to black as shown below.

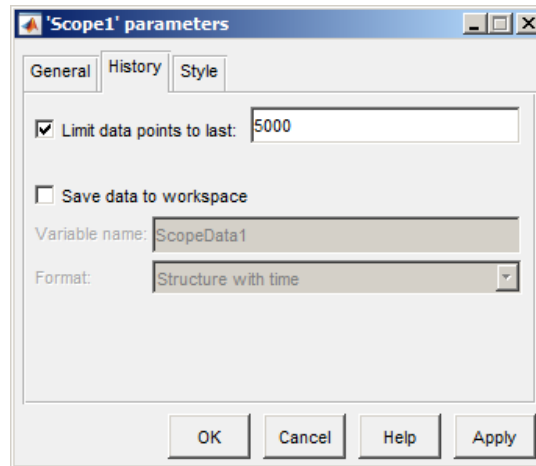


Now the Scope plot looks like the figure below.



Method 2:

Go to **Scope Parameters** and select the **History** tab. Check the **Save data to workspace** box. Note the variable name. In this example it is `ScopeData1`. Saving with Structure with time will save the data as a structure. Run the simulation again.



Now, go into the MATLAB command window. You should see the `ScopeData1` data in the variable list. Type

```
plot (ScopeData1.time, ScopeData1.signals.values)
```

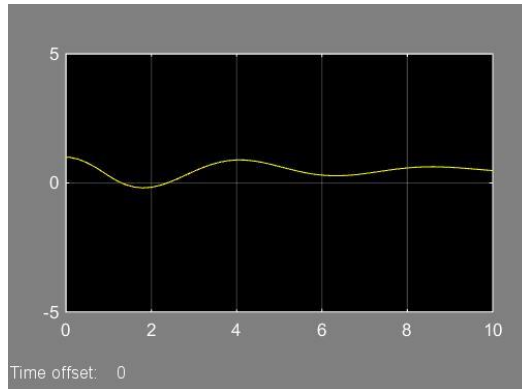
This gives a MATLAB plot which can be manipulated and saved or copied as an image.

Method 3:

You can save the scope image as a jpg image. Create the m-file below and save it as something like `prfig.m`. In MATLAB run `prfig`. It should produce the file `'mypic.jpg'` in your MATLAB folder. Of course, you can change the name of the image before running `prfig.m`.

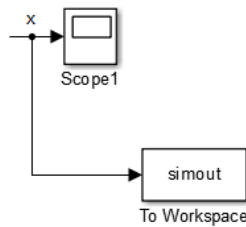
```
shh = get(0, 'ShowHiddenHandles');
set(0, 'ShowHiddenHandles', 'On')
set(gcf, 'PaperPositionMode', 'auto')
set(gcf, 'InvertHardcopy', 'off')
saveas(gcf, 'mypic.jpg')
set(0, 'ShowHiddenHandles', shh)
```

Now you can Insert the figure into your MS Word document as a Picture file.



Method 4:

You can add a To Workspace block to your simulation. This will automatically place the data in the MATLAB space. Go to the Simulink library and add a To Workspace block to your model. Connect this block to the input to the Scope (right click the input line and drag to connect to the To Workspace block.) This will give the connection as shown.



You can double-click this block and change the variable name that will be saved. Let's assume it is simout. Then, run the simulation. Go into MATLAB and type

```
plot(simout.time,simout.data)
```

This will give you a plot of your scope data. Now you can print, save as an image, or copy (under Edit) to an MS Word document. Below is what you get using Copy Figure under the Edit menu item in the Figure window.

