

Dynamic Simulink Report

Using the Report Generator to Document Changes

Simulink User

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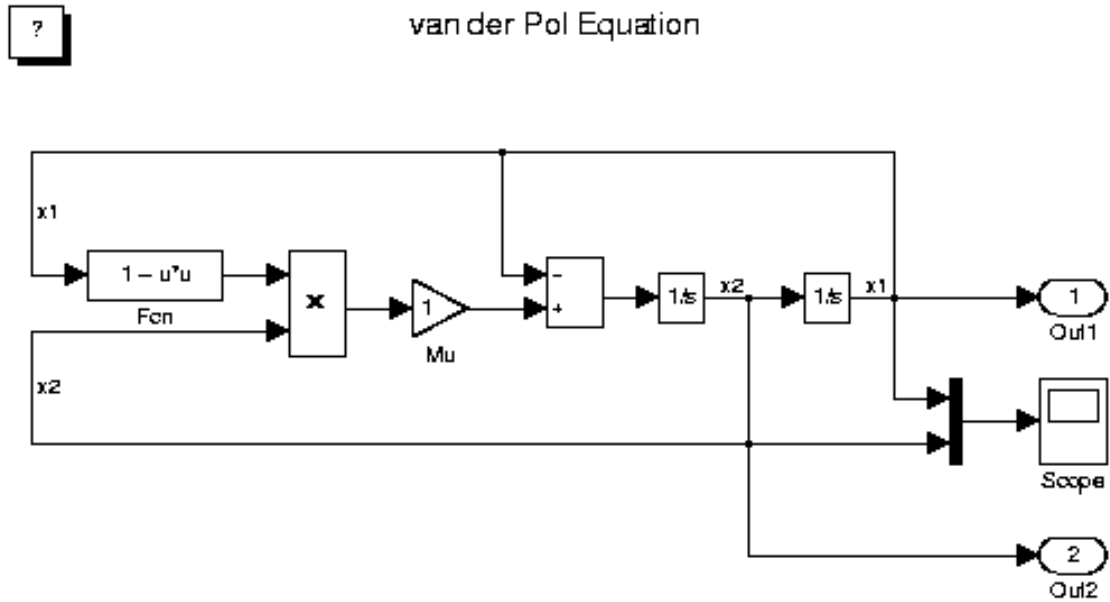
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Chapter 1. Model - vdp

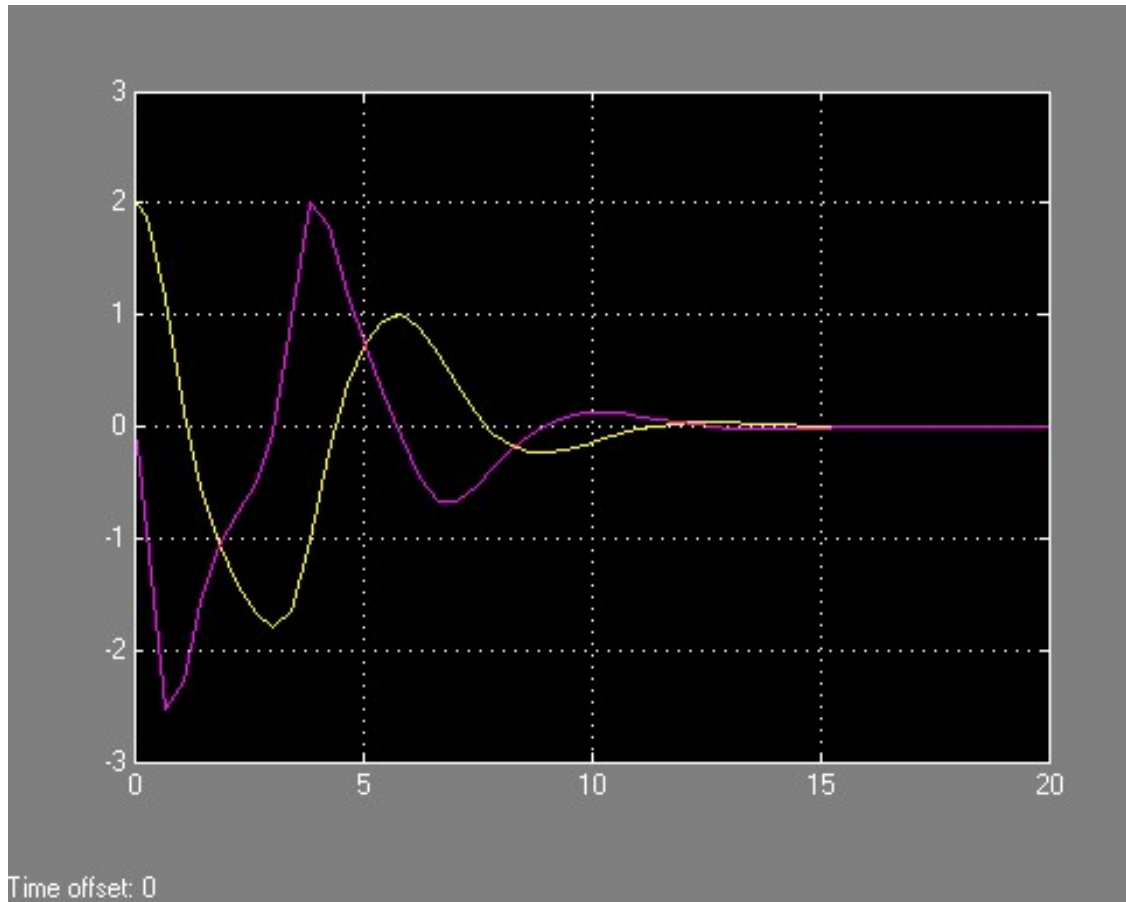
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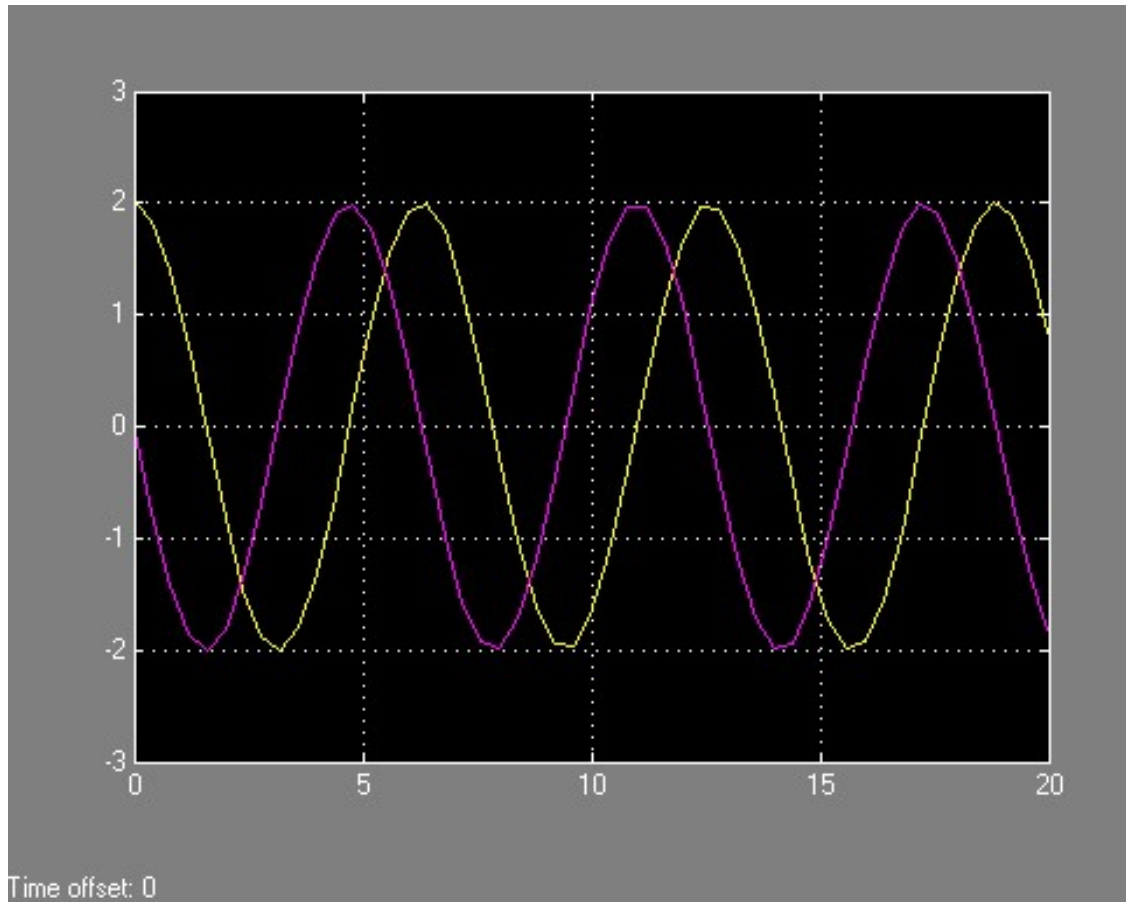
This is a demonstration of the Report Generator's ability to experiment with Simulink systems and auto-document the results. In this report, we will load the model vdp and simulate it 5 times. The report will modify the vdp/Mu block's "Gain" value, setting it to the values [-1 0 0.5 1 2]. Each iteration of the test will include a set of scope snapshots in the report.



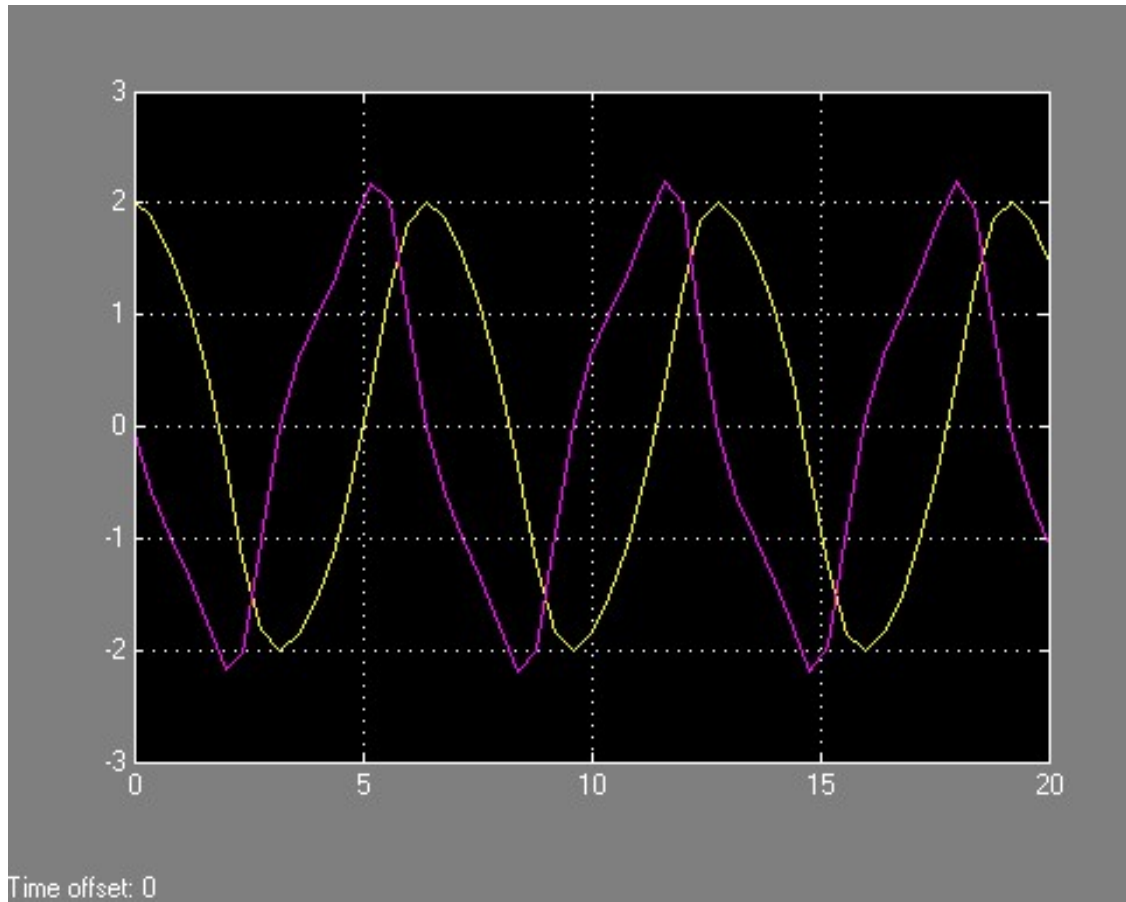
1. Gain Value: -1



2. *Gain Value: 0*

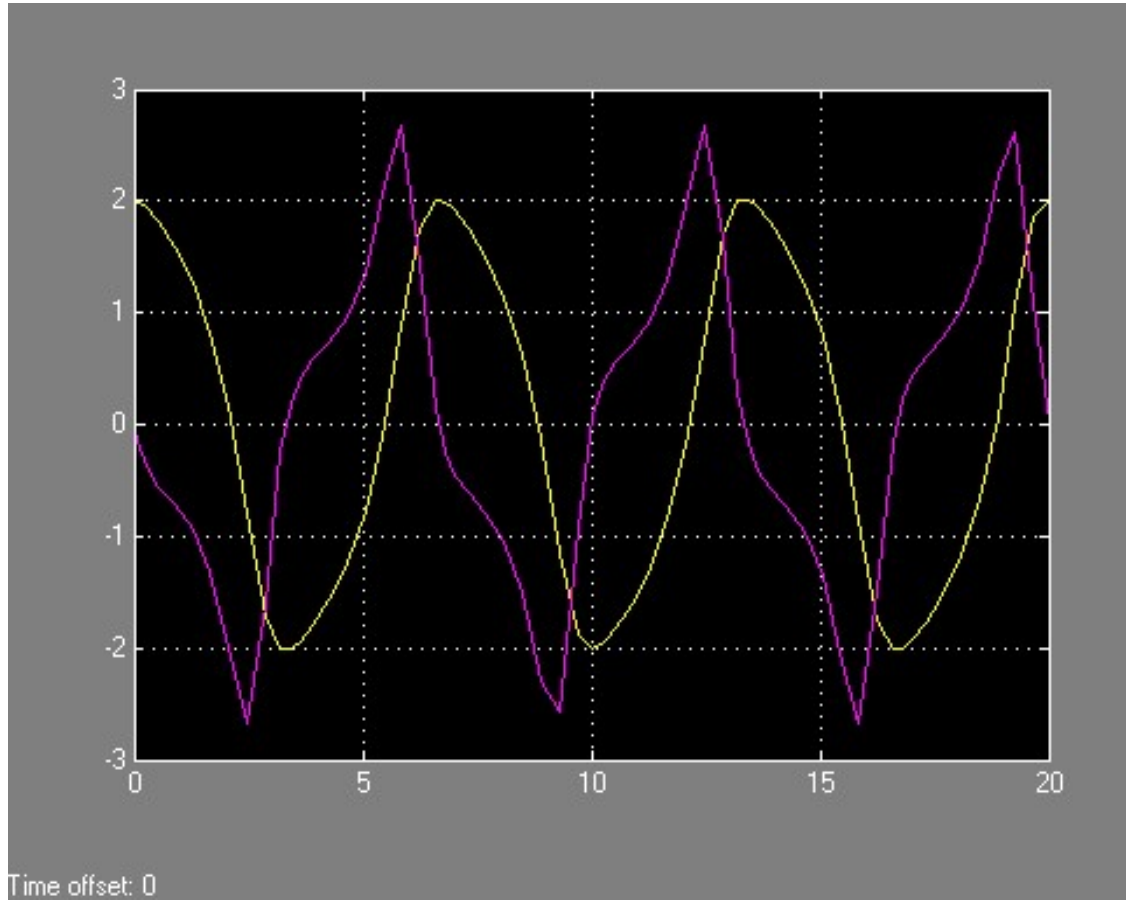


3. Gain Value: 0.5



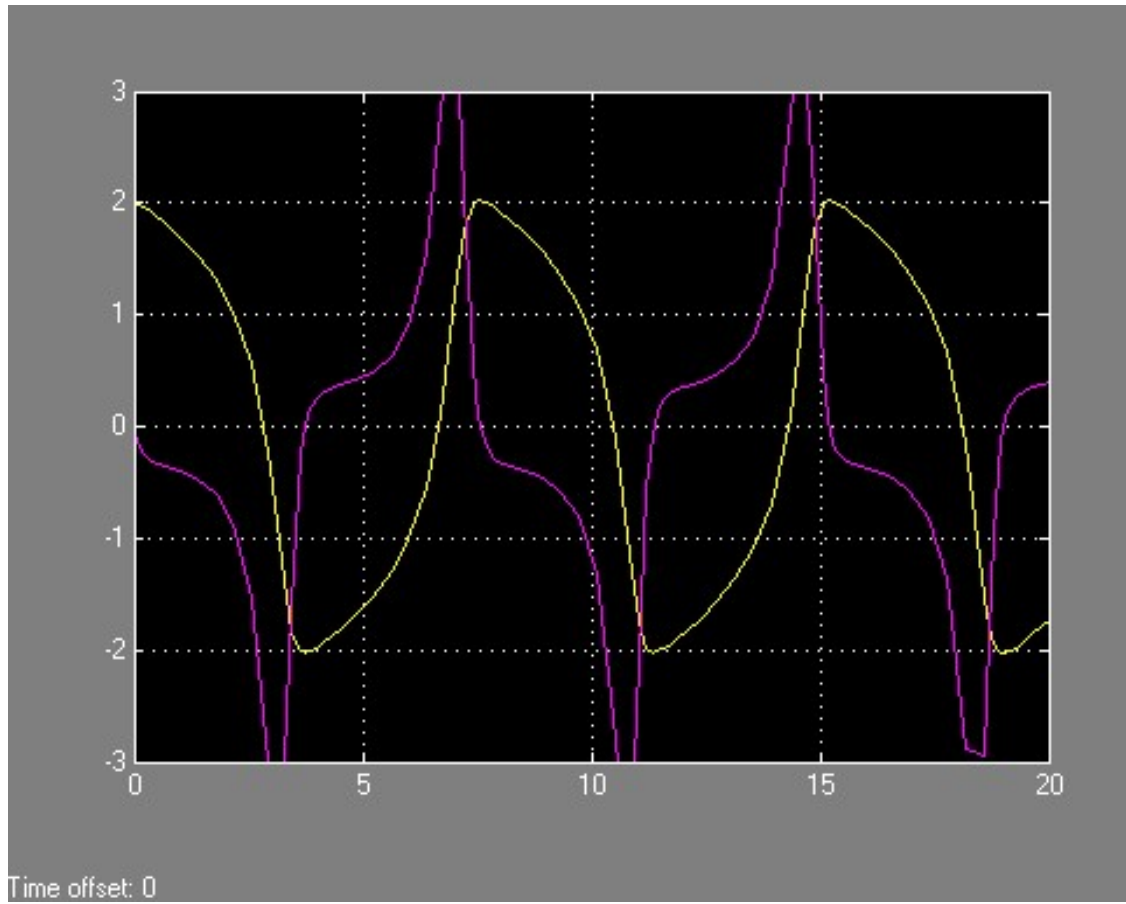
Success. The conditioned signal has a maximum value of 2.2011, which lies in the desired range of greater than 2.1 and less than 3.

4. Gain Value: 1



Success. The conditioned signal has a maximum value of 2.6774, which lies in the desired range of greater than 2.1 and less than 3.

5. Gain Value: 2



6. Post-Test Analysis

2 values for vdp/Mu were found which resulted in a maximum signal value greater than 2.1 but less than 3. The following table shows those values and their resulting signal maximum.

Table 1.1. Valid Gain Values

Mu Value	Signal Maximum
0.5	2.2011
1	2.6774