Saving plot results to the model
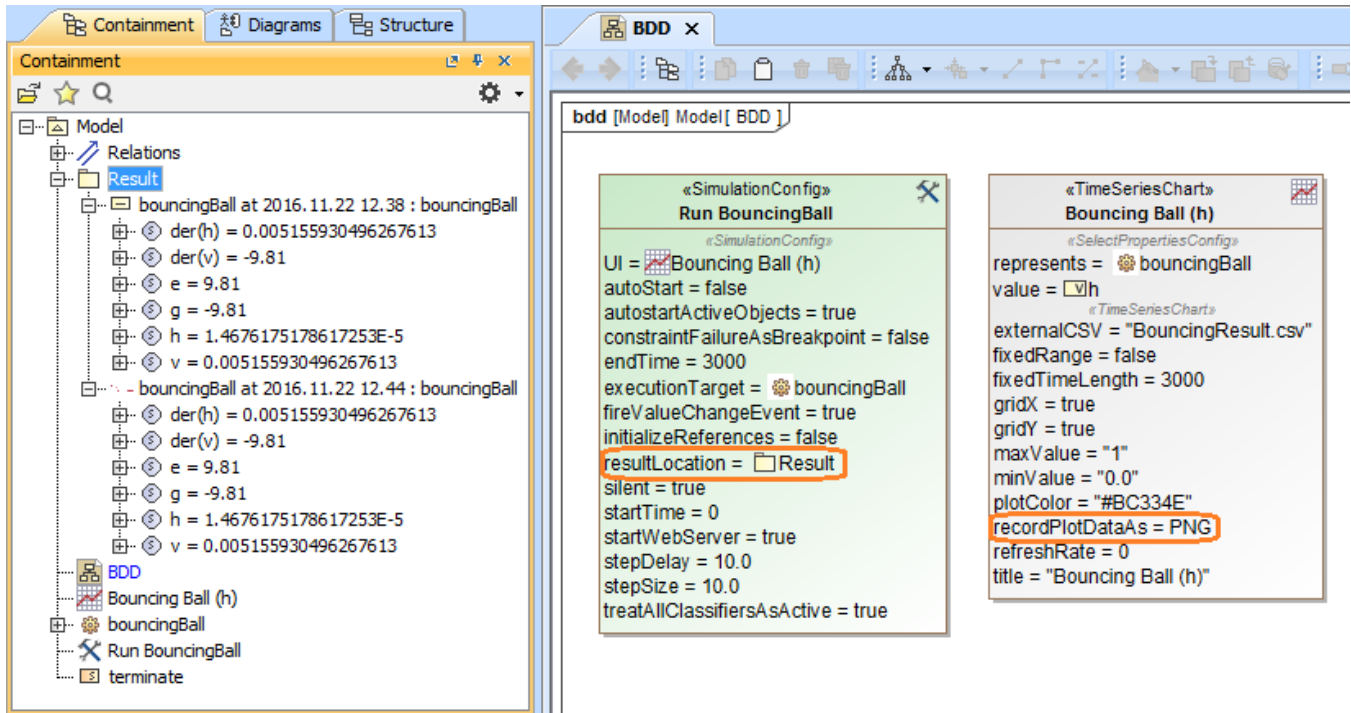
The parameter **Result Location** in the <<SimulationConfig>> allows you to record and save plot results on a Time series chart into the model when simulation is completed. You can save the plot results in the **Result Location** parameter in the following formats: PNG file, CSV, or HTML file by using the **Record Plot Data As** option in the Specification window of the Time series chart. The feature works with the Time series chart both stand-alone and in the UI diagram. You can then include the plot results into a generated document for reporting purposes.

Saving plot results using resultLocation in the <<SimulationConfig>>.

To save plot results using **Result Location**

1. Open the Specification window of a <<SimulationConfig>> and set **Result Location** to an InstanceSpecification.
2. Open the Specification window of a TimeSeriesChart and set **Record Plot Data As** to the PNG, CSV, or HTML format.
3. **Run** the <<SimulationConfig>> until it terminates. The expected plot result will be saved into the InstanceSpecification. You can review the result through specification of the InstanceSpecification.
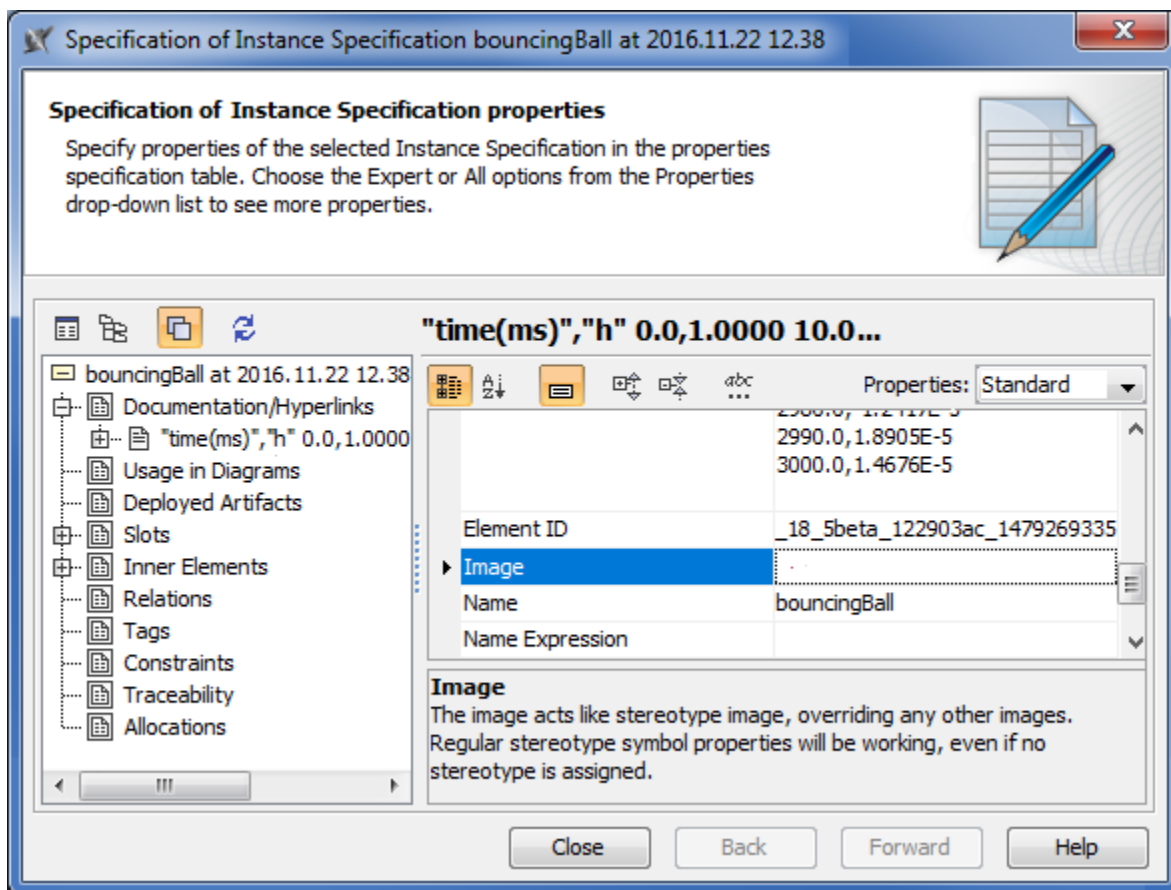
> ⚠️ **Note**
>
> - If **Result Location** is set to a package, the plot results will be saved into a new InstanceSpecification at each runtime. However, if **Result**
>
>   **Location** is set to an InstanceSpecification, the results will be saved into the selected InstanceSpecification.
>
> - After the simulation stopped, the plot results (both image and CSV values) will be saved in the **Image** and **Comment** properties of the specified
>   InstanceSpecification if the **Record Plot Data As** option in Time series chart is not specified.

The following figure shows the plot image saved in the Specification of Instance Specification of the bouncingBall model
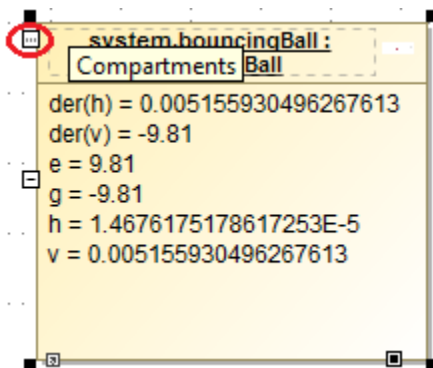
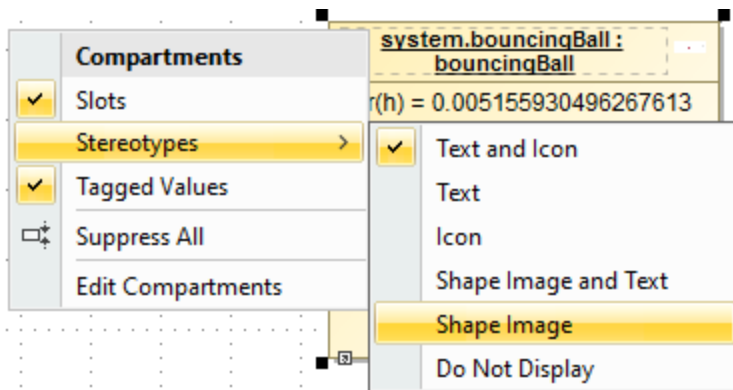The plot image saved in the Image property of the specified InstanceSpecification of the bouncingBall model.

The image is too large to show in the **Image** property in the Specification window; therefore, you can verify it by dragging the InstanceSpecification into the diagram.

To verify a plot image saved in the Image property of the selected InstancedSpecification

1. Drag the InstanceSpecification to the diagram.
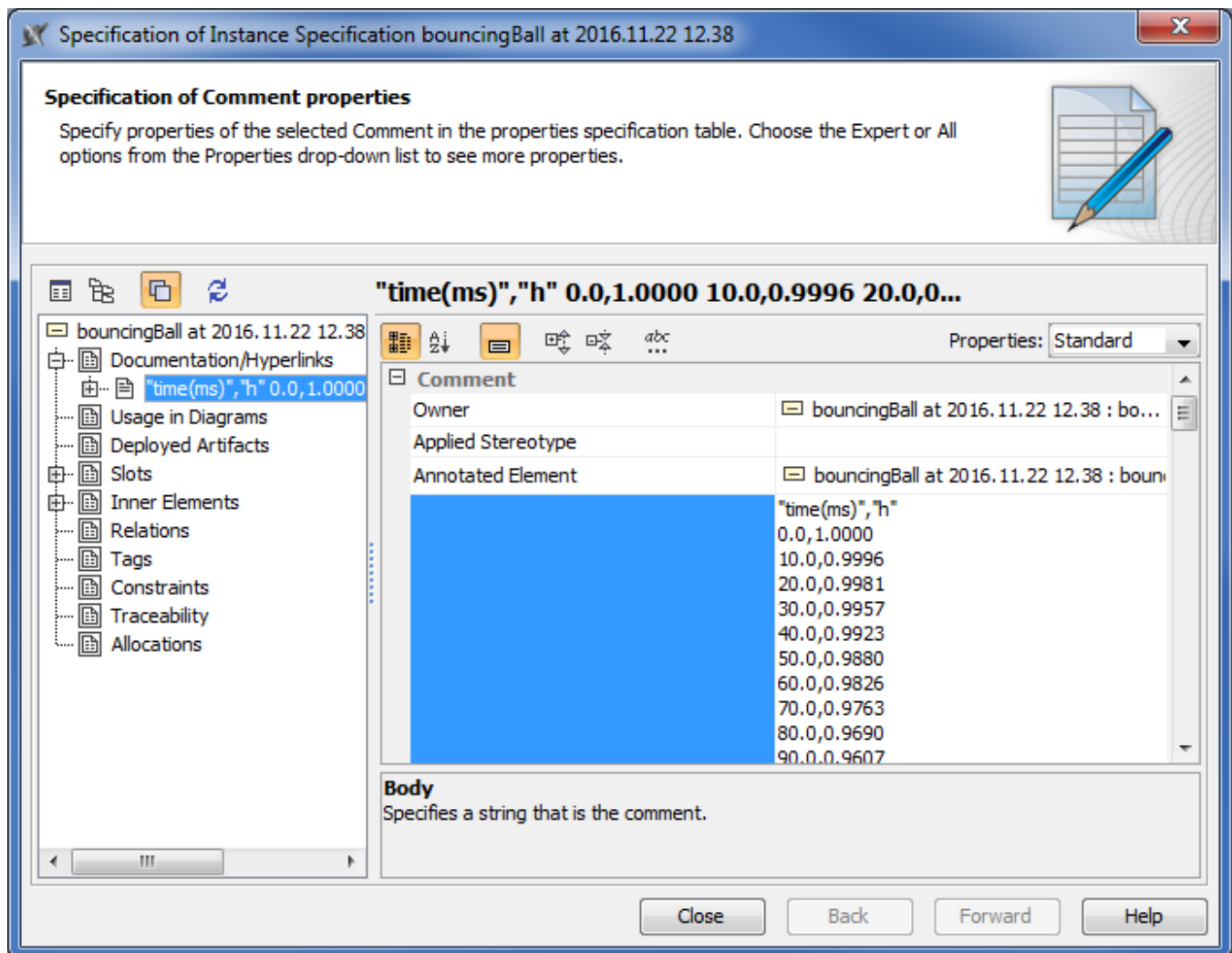2. click ⊞ on the top left of the InstanceSpecification. The **Compartments** shortcut menu will open.

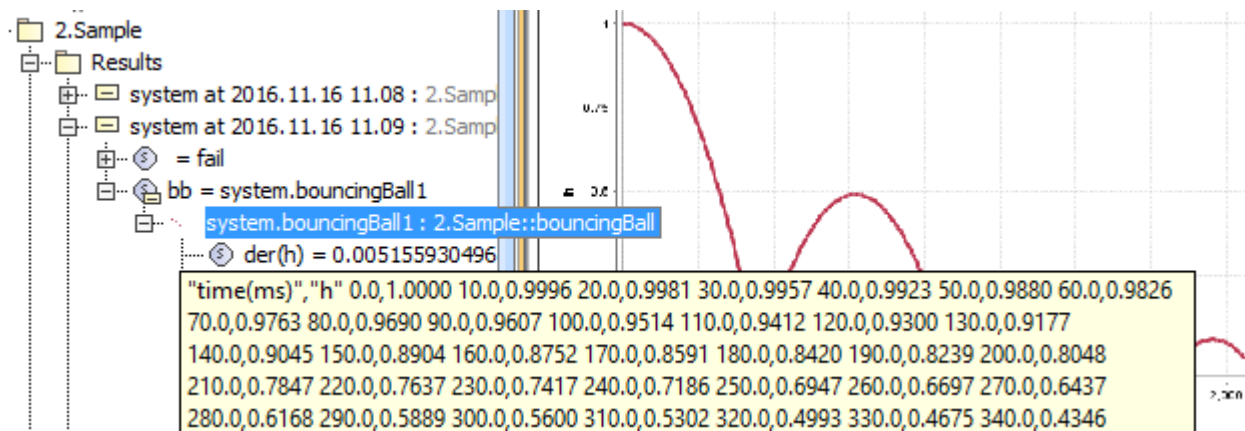The Compartments menu icon on the top left of the InstanceSpecification.

3. Select **Stereotypes** > **Shape Image**.

The following figure shows the CSV values saved in the Specification of Instance Specification of the bouncingBall model
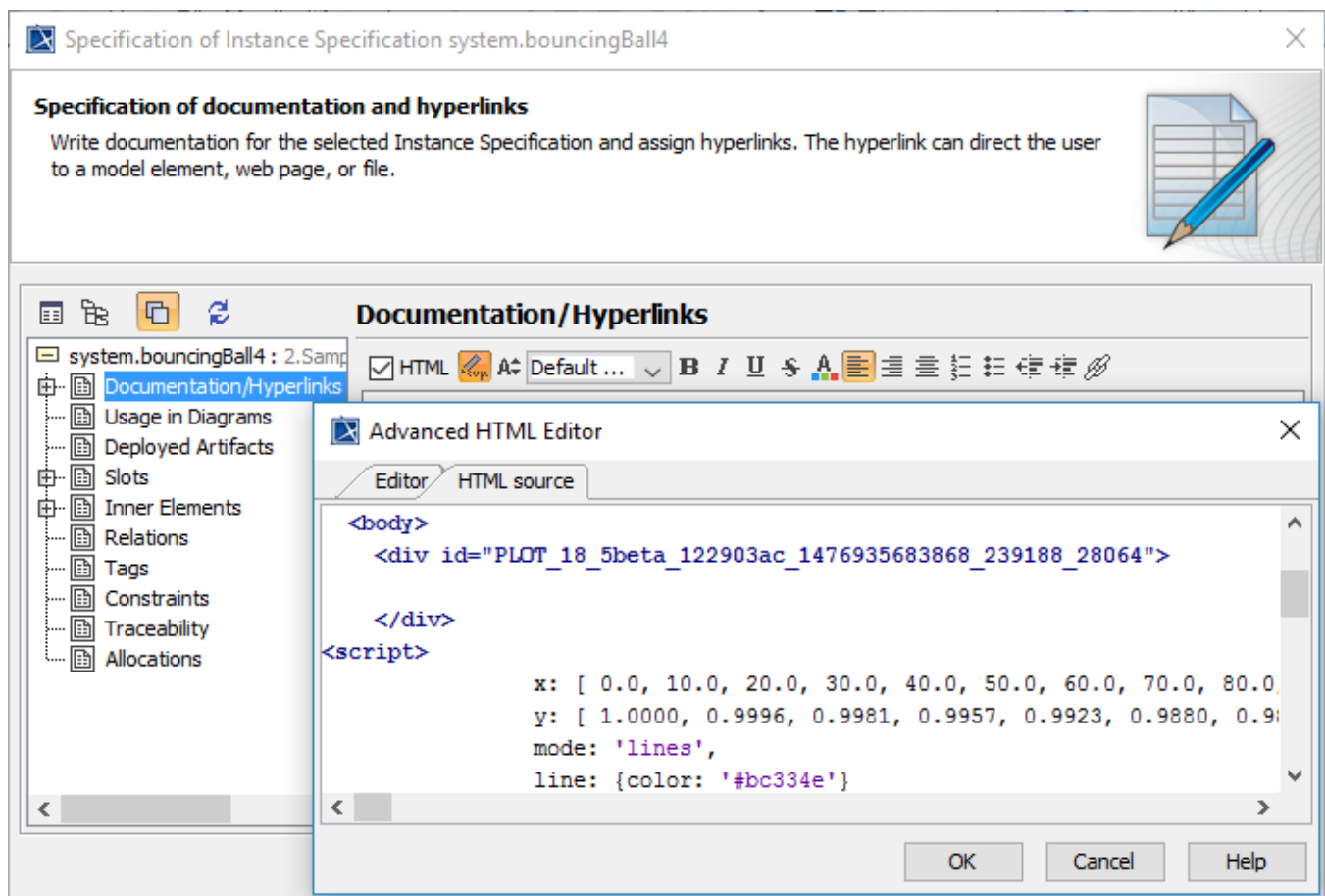

The plot CSV values are saved in the Body of the Comment property of the specified InstanceSpecification of bouncingBall model.

You can also specify the **Record Plot Data As** option in the Time series chart to your preferred plot result format (PNG, CSV, or HTML). If PNG is selected, you can verify the saved plot image by dragging the InstanceSpecification to the diagram and click on the top left of the InstanceSpecification to open the **Compartments** shortcut menu and select **Stereotypes** > **Shape Image**.

"time(ms)","h" 0.0,1.0000 10.0,0.9996 20.0,0.9981 30.0,0.9957 40.0,0.9923 50.0,0.9880 60.0,0.9826
70.0,0.9763 80.0,0.9690 90.0,0.9607 100.0,0.9514 110.0,0.9412 120.0,0.9300 130.0,0.9177
140.0,0.9045 150.0,0.8904 160.0,0.8752 170.0,0.8591 180.0,0.8420 190.0,0.8239 200.0,0.8048
210.0,0.7847 220.0,0.7637 230.0,0.7417 240.0,0.7186 250.0,0.6947 260.0,0.6697 270.0,0.6437
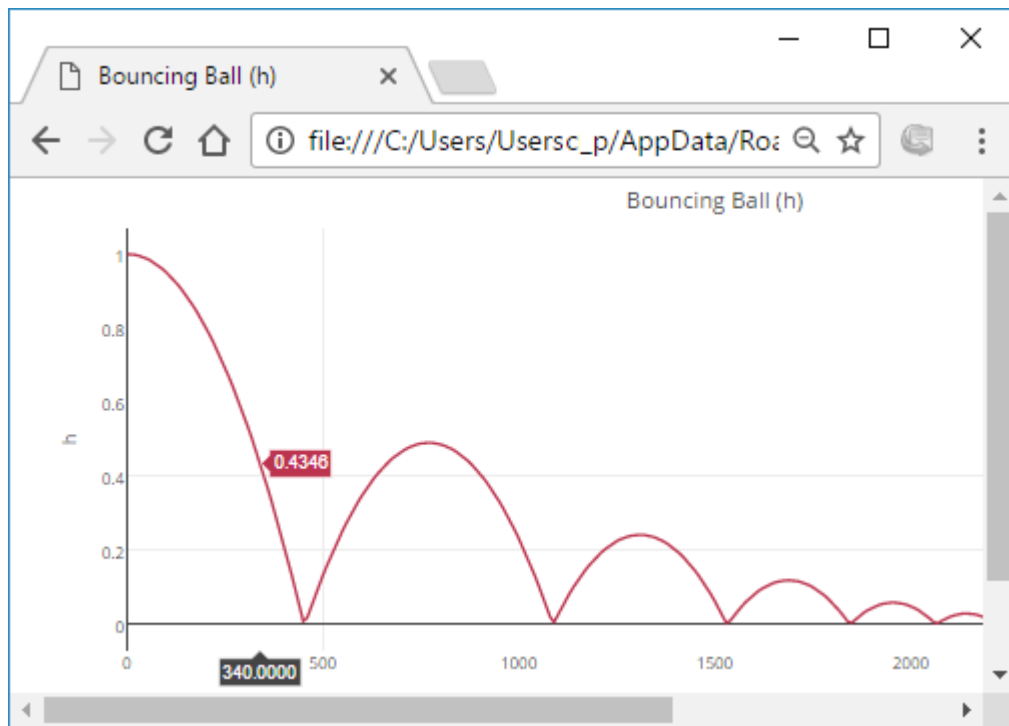280.0,0.6168 290.0,0.5889 300.0,0.5600 310.0,0.5302 320.0,0.4993 330.0,0.4675 340.0,0.4346

Verifying the saved plot image of the InstanceSpecification via **Compartments** > **Stereotypes** > **Shape Image**.

If the **Record Plot Data As** option is HTML, the HTML source will be generated into the **Documentation/Hyperlinks** property group. You can customize the title, logo, font, and other layouts of the generated HTML source and use them in other reports.

HTML generated into the Documentation/Hyperlinks field of the InstanceSpecification.

The generated HTML can be saved and opened with a browser as shown in the following figure

The HTML files of the saved plot results (The Record Plot Data As option is HTML).

Related pages

- SimulationConfig stereotype
- Time series chart
- Specification window