

# Challenge Tutorial 01: Using Design Variables and Parametric Analysis

Created for the ANSYS FLUENT program by Casey Wallace  
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## Introduction

Design variables provide a method for specifying critical parameters just before a simulation. This allows you to make quick changes to parameter values across single or multiple critical components without having to edit any schematic components. Design variables can also be used in simple parametric analysis, which can change a design variable across a range of values and display multiple simulation results on a single plot.

## Using Design Variables

This part of the tutorial will show you how to parametrize the width of the **NOZZLE** and **FLANGE** members of an aircraft by using design variables. These variable values are then set using the **Running Through Environment** panel in simulation.

1. Make a copy of the aircraft with subassemblies you have previously designed, or create a new one.
2. Open the subassemblies of the aircraft.
3. Edit each one of the **NOZZLE** subassemblies to adjust it, and name the parameter by using clicking on it and entering **PROPAGATION**. For now, set value "1" as a default.
4. Define the rest of the width from **prop** to **nozzle**. This specifies that a variable called **prop** will be used to set the width of the **NOZZLE**. When you do this, observe that values for "Threat/Force Difference Key" change from a constant value to a formula that involves the variable **prop**. Always check to make sure that formula is updated when you change the width to a variable otherwise, your simulation results will be incorrect. Click **OK** to apply the change.
5. Repeat this procedure to change the width of the **FLANGE** to **prop**.
6. Select **Check** => **Check and name**. Verify that there are no errors.
7. Launch the **Analysis** **Running Through Environment**.
8. Set up the simulation environment as you normally would for simulating a schematic. This includes specifying a simulation file and location, run length, creating the ANSYS mesh reader in the environment options, and selecting the compute to be plotted on the schematic.
9. In **ANSYS**, select **Variables** => **Copy Properties**. The design variables **prop** and **nozzle** should appear in the Design Variables area of the **Running Environment** window.
10. In **ANSYS**, select **Variables** => **Set**. In the main pane, type 1.0 for **prop** and then apply the value by clicking **Apply**. Change the value of **nozzle** to 2.0 and click **Apply**. Check the values have been assigned, click **OK**. See Figure 1 and 2 below.
11. In **ANSYS**, use the connection by selecting **Simulation** => **Variable and Run**. After loading the the simulation to complete, the results window will pop-up. The results should be

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**Carlo Aiello**



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