

# FLUENT - Compressible Flow in a Nozzle- Step 3

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[Problem Specification](#)

[1. Pre-Analysis & Start-up](#)

[2. Geometry](#)

**3. Mesh**

[4. Setup \(Physics\)](#)

[5. Solution](#)

[6. Results](#)

[7. Verification & Validation](#)

[Problem 1](#)

[Problem 2](#)

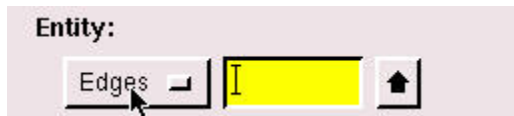
## Step 3: Mesh

### Specify Boundary Types

Now that we have the mesh, we would like to specify the boundary conditions here in *GAMBIT*.

Operation Toolpad > Zones Command Button  > Specify Boundary Types Command Button 

This will bring up the *Specify Boundary Types* window on the *Operation Panel*. We will first specify that the left edge is the inlet. Under *Entity*., pick *Edges* so that *GAMBIT* knows we want to pick an edge (face is default).



Now select the left edge by *Shift-clicking* on it. The selected edge should appear in the yellow box next to the *Edges* box you just worked with as well as the *Label/Type* list right under the Edges box.

Next to *Name*., enter *inlet*.

For *Type*., select *WALL*.

Click *Apply*. You should see the new entry appear under *Name/Type* box near the top of the window.

**Specify Boundary Types**

**FLUENT 5/6**

**Action:**

◆ Add
▼ Modify

▼ Delete
▼ Delete all

Name	Type

☐ Show labels

Name:

Type: 

PRESSURE\_INLET

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**Entity:**

Edges

inlet

↑

Label	Type
inlet	Edge

Remove

Edit

Apply

Reset

Close

Repeat for the outlet, centerline, and wall edges.

You should have the following edges in the **Name/Type** list when finished:

Name	Type
inlet	PRESSURE_INL
outlet	PRESSURE_OU
wall	WALL
centerline	AXIS

## Save and Export

Main Menu > File > Save

Main Menu > File > Export > Mesh...

Type in `nozzle.msh` for the **File Name:**. Select **Export 2d Mesh** since this is a 2 dimensional mesh. Click **Accept**.

Check `nozzle.msh` has been created in your working directory.

Go to [Step 4: Setup \(Physics\)](#)

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