

INTRODUCTION

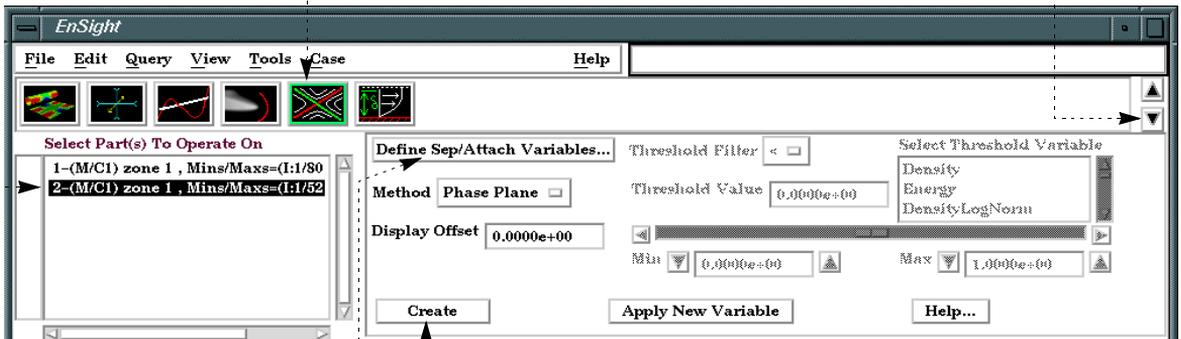
Separation and attachment lines are created on any 2D surface and show interfaces where flow abruptly leaves (separates) or returns (attaches) to the surface. For a more complete description refer to the User Manual section below.

BASIC OPERATION

1. Select the 2D parent part.

2. Click the Separation/Attachment part icon.

(Note: This icon is on the second row of icons. Click here if you do not see this icon.)

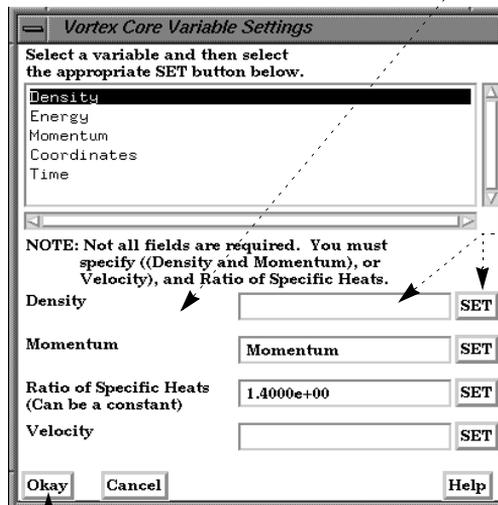


3. Bring up the dialog defining the necessary variables by clicking here.

4. Define either Density and Momentum or velocity, as well as the Ratio of Specific Heats.

The variables can be set by either typing them into the fields or be selecting them from the list above and clicking the Set button.

5. Click Okay to finish the variable setup.



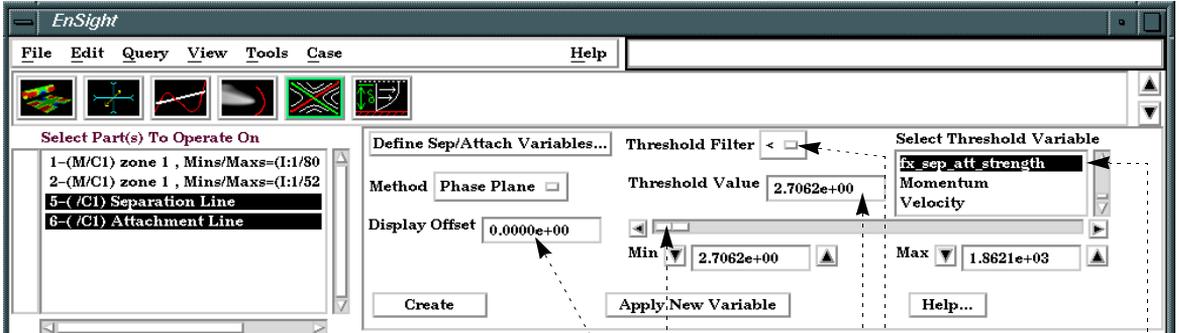
6. Click Create

This will create two parts - one each for the separation and attachment lines. You can modify the visual attributes of these parts separately, but when you change any creation attribute, both parts will be modified.



ADVANCED USAGE

The resulting separation/attachment parts can be filtered by the `fx_sep_att_strength` variable or by any other active variable.



1. Select the variable to filter by.
2. Set the Threshold filter to remove the portion of the separation/attachment line that is larger or smaller than the specified threshold value.
3. Enter a threshold value
- or -
3. Slide the slider to a new threshold value.

The resulting separation and attachment parts will be exactly on top if the 2D parent part, so you may want to offset these parts by specifying a small offset value here.

OTHER NOTES

The separation and attachment parts are linked together with regard to their creation attributes, i.e. when one is modified the other is also. Further, when one is deleted the other is also deleted.

SEE ALSO

User Manual: [Separation/Attachment Lines Create/Update](#)