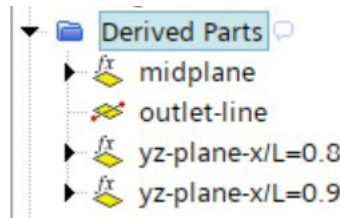
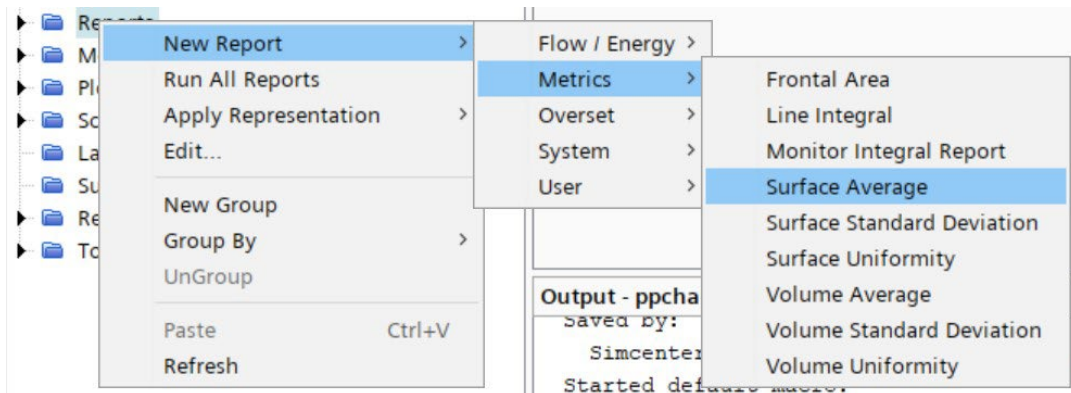


This example uses the parallel plate channel setup and assumes that you have a y-z plane defined at a given x location. The steps below can be used to obtain the area average on multiple planes at once by simply selecting more than one plane. The example uses two planes (at $x/L = 0.8$ and $x/L=0.9$).

1. Create the two planes (steps are elsewhere on how to create a plane. The two planes are under derived parts:



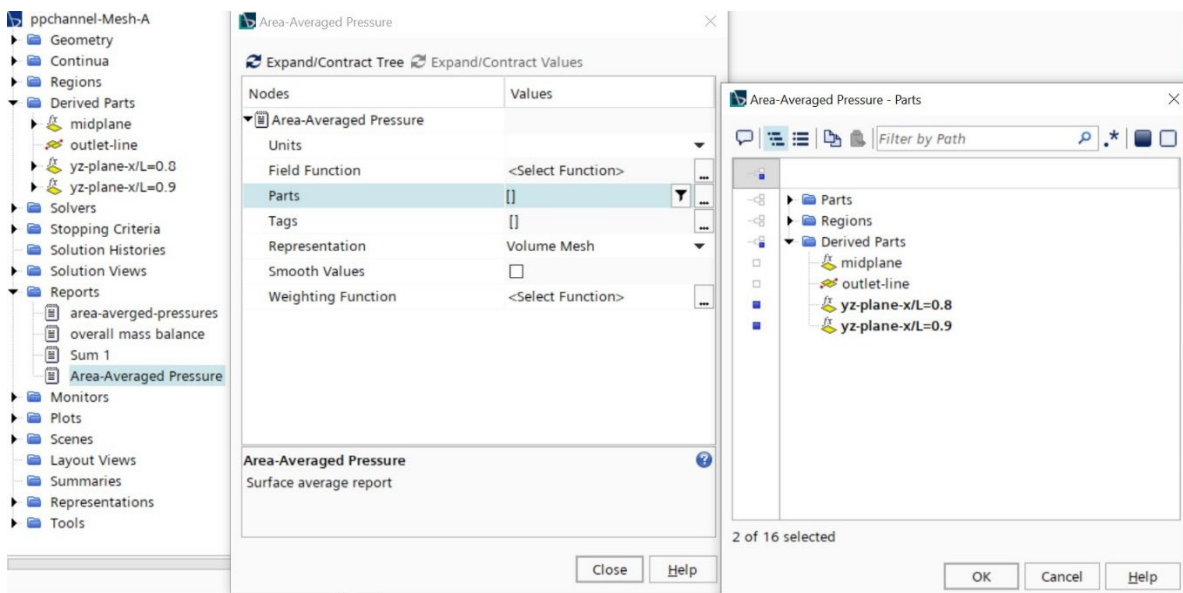
2. Create new report: Right click Report -> New Report -> Metrics -> Surface Average



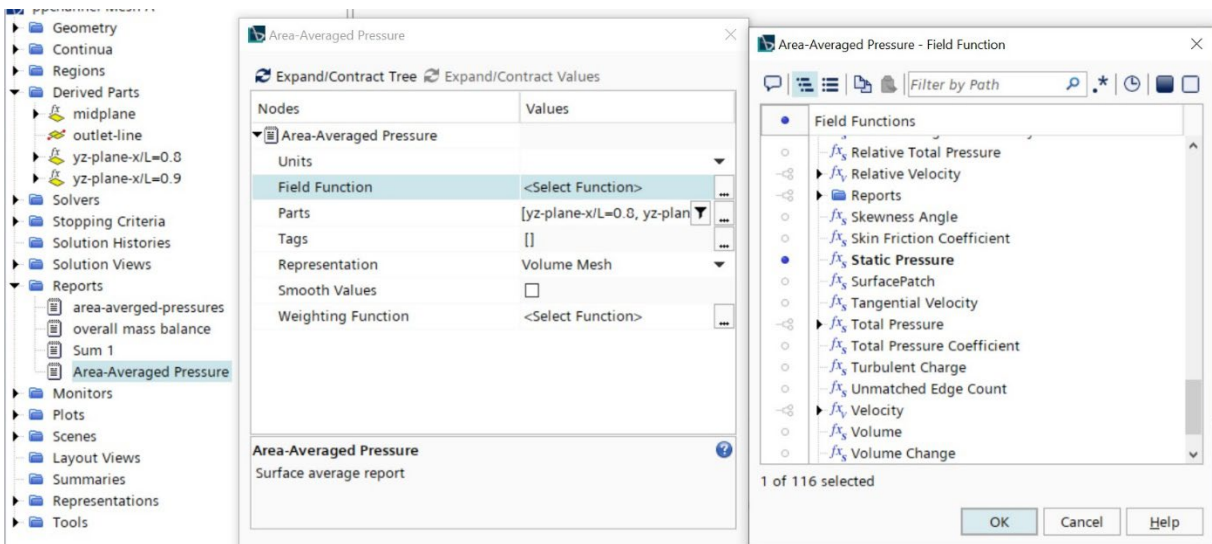
3. Rename the report from “Surface Average 1” to “Area-Averaged Pressure”

4. Right click on Area-Averaged Pressure and choose Edit.

5. In the edit dialog, select the two planes in Parts and then click OK.



Also choose the Static Pressure for the Field Function



Then click Close.

6. Right click on Area-Averaged Pressure and choose Run Report. You should get something like:

Part	Value (Pa)
yz-plane-x/L=0.8	1.926952e-05
yz-plane-x/L=0.9	9.636628e-06
Total:	1.445307e-05

The Total quantity can be ignored. The objective this would normally be just to get the area-average pressure values to use for a dp/dx calculation.