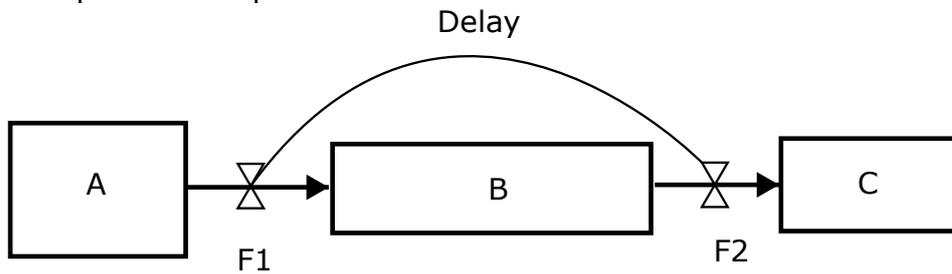


As you are an expert in VENSIM you are way ahead of me in this problem. I am just trying to understand a simple model before tackling greater complexity.
 Lets reduce the model even further so we dont start building implicit assumptions.

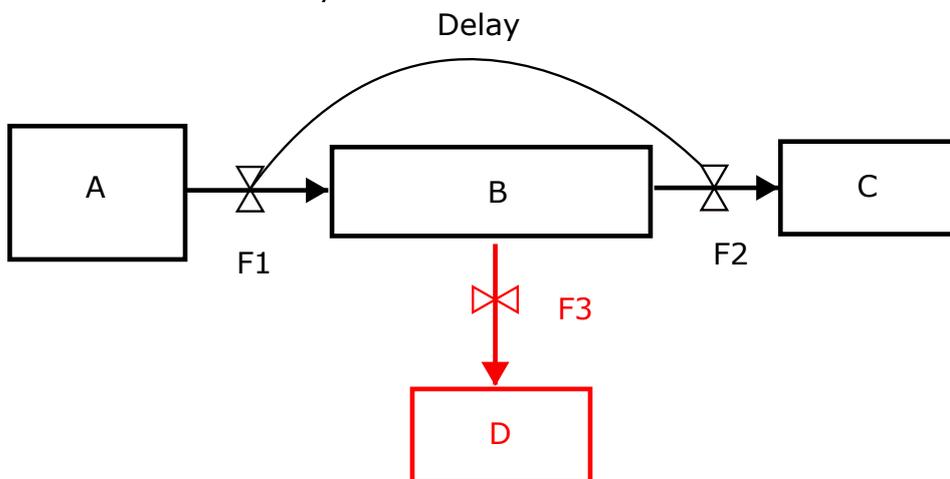


make $F2 = F1$ after a delay
 This simulates passage down a tube

Lets not get into further refinement like

- 1) diffusion processes
- 2) volume not constant
- 3) heterogeneous mixing processes

Next I want to draw some of the material off B DURING the time its in "delay"



As written this wont work because $F2$ will be the $F1$ back at the start of the delay. It will be reduced by the flow rate to D . For arguments sake, lets say that $F1$ is a first order flow on A ($dA/dt = k1[A]$) and $F3$ is also first order on B ($dB/dt = k2[B]$) Then $F2$ is the delay, so its equal to $F1$ but delayed by 4h.

But what I am struggling with is how to to get a correct $F2$ rate? Because it will not be equal to $F1$ back at the start of the delay, presumably its proportionally less due to the drawoff from $F3$ flow which is not subjected to a delay.

Is there a right way to set this up?