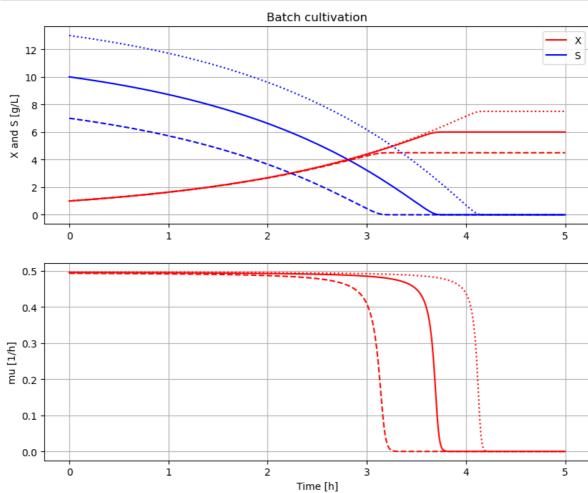
BPL_TEST2_Batch - demo

```
In [1]: run -i BPL_TEST2_Batch_explore.py
        Windows - run FMU pre-compiled JModelica 2.14
        Model for bioreactor has been setup. Key commands:
                        - change of parameters and initial values
          - init()
                        - change initial values only
                        - simulate and plot
         - simu()
          - newplot()
                        - make a new plot
          - show()
                        - show plot from previous simulation
                        - display parameters and initial values from the last simulation
         - disp()
         - describe() - describe culture, broth, parameters, variables with values / unit
        Note that both disp() and describe() takes values from the last simulation
        Brief information about a command by help(), eg help(simu)
        Key system information is listed with the command system_info()
In [2]: %matplotlib inline
        plt.rcParams['figure.figsize'] = [25/2.54, 20/2.54]
In [3]: # Simulation with default values of the process
        newplot(plotType='TimeSeries')
         simu()
                                               Batch cultivation
           10
         X and S [g/L]
            4
            2
            0
                                              2
                                                             3
                                                                                          5
           0.5
           0.4
        0.3
0.2
           0.1
           0.0
                                                   Time [h]
```

```
In [4]: # Simulation were initial value of substrate VS_0 is varied
newplot(plotType='TimeSeries')
for value in [10, 7, 13]: init(VS_0=value); simu(5)

# Restore default value of VS_0
init(VS_0=10)
```



System information

-OS: Windows
-Python: 3.10.6

-Scipy: not installed in the notebook

-PyFMI: 2.10.0

-FMU by: JModelica.org

-FMI: 2.0

-Type: FMUModelCS2
-Name: BPL_TEST2.Batch

-Generated: 2022-10-06T08:12:54

-MSL: 3.2.2 build 3

-Description: Bioprocess Library version 2.1.0

-Interaction: FMU-explore version 0.9.6

In []: