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$$\begin{aligned} \frac{dS}{dt} &= -b * In * S / (S + L + In + R + Q) - u(t) * S / (S + L + In + R + Q), \\ \frac{dL}{dt} &= b * In * S / (S + L + In + R + Q) - a * L, \\ \frac{dIn}{dt} &= a * L - g * In + s * Q, \\ \frac{dR}{dt} &= u(t) * S / (S + L + In + R + Q) + e * g * In, \\ \frac{dQ}{dt} &= (1 - e) * g * In - s * Q, \\ y1 &= In / (S + L + In + R + Q) \end{aligned}$$

Running SIAN:

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=> Step 0. Extracting states, inputs, outputs, and parameters from the system
=> Step 1. Constructing the maximal polynomial system
=> Step 2. Truncating the polynomial system based on the Jacobian condition
=> Step 3. Assessing local identifiability
=> Step 4. Randomizing the truncated system
=> Step 5. Assessing global identifiability



▼Outputs:

Globally Identifiable Parameters

Running

Identifiability of Individual Parameters:

Locally Identifiable Paramters

$[a, b, e, g, s, S(0), L(0), In(0), R(0), Q(0)]$

Not Identifiable Parameters

∅

Identifiable Combinations:

Bound on the number of experiments:

∅

Multi-Experient identifiable functions are generated by:

∅

Single-Experiment identifiable functions are generated by:

∅

CPU runtime of SIAN (sec)

CPU runtime of Multi-Experiment Identifiability (sec)

CPU runtime of Single-Experiment Identifiability (sec)

▼ Execution Log:

SIAN log:

Using text-based input format:

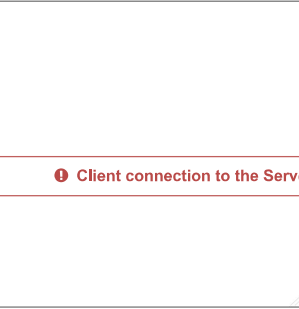
$$\begin{aligned} & [\text{diff}(S(t),t) = - \\ & \quad b \cdot \text{In}(t) \cdot S(t) / (S(t) + L(t) + \text{In}(t) + R(t) + Q(t)) \\ & \quad) - \\ & \quad u(t) \cdot S(t) / (S(t) + L(t) + \text{In}(t) + R(t) + Q(t)), \\ & \quad \text{diff}(L(t),t) = \\ & \quad b \cdot \text{In}(t) \cdot S(t) / (S(t) + L(t) + \text{In}(t) + R(t) + Q(t)) \\ & \quad) - a \cdot L(t), \quad \text{diff}(\text{In}(t),t) = - \\ & \quad g \cdot \text{In}(t) + a \cdot L(t) + s \cdot Q(t), \quad \text{diff}(R(t),t) = \\ & \quad u(t) \cdot S(t) / (S(t) + L(t) + \text{In}(t) + R(t) + Q(t)) + \\ & \quad e \cdot g \cdot \text{In}(t), \quad \text{diff}(Q(t),t) = (1 - \\ & \quad e) \cdot g \cdot \text{In}(t) - s \cdot Q(t), \quad y1(t) = \\ & \quad \text{In}(t) / (S(t) + L(t) + \text{In}(t) + R(t) + Q(t))] \end{aligned}$$

=====

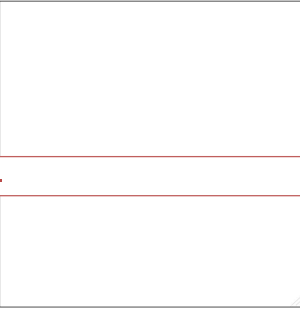
=====

0. Extracting states, inputs, outputs,

Multi-Experiment Identifiability Log



Single-Experiment Identifiability Log



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