

Digital Twin Demonstration Scenario For ICDCM Tutorial

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Simulink Scenario 1: Emulated Physical Twin Demonstration

1. Set forecasting window to 120s.
2. Set upper thermal limit to 45°C.
3. Increase load to 3.1W.
 - Watch for digital twin to hit 45°C and flag up to light up.
 - Watch for the time to constraint countdown to go to zero and observe the physical twin hitting the upper thermal constraint.
4. Set lower thermal limit to 40°C.
5. Decrease load to 1.25W.
 - Watch for digital twin to hit 45°C and flag down to light up.
 - Watch for the time to constraint countdown to go to zero and observe the physical twin hitting the upper thermal constraint.