**Named Queues Issues Demonstration Script**

**Interrupting Main Process**

1. Open Named Queues Issues.lvproj.
2. From the Project Explorer, open Main – Process.vi and Main – Interrupt Process.vi.
3. Run the Main – Process VI. Notice the cases listed in the Recent Cases indicator.
4. Run the Main – Interrupt Process VI, and click the **Interrupt Process** button several times. This enqueues the Interrupt Process message in the QDMH of the Main – Process VI.
5. Notice that the Recent Cases indicator on the Main – Process VI shows that the **Interrupt Process** case can interrupt the Process 1 🡪 Process 2 🡪 Process 3 sequence.  
     
   The Main – Process VI has a 100ms wait time between enqueues of Process 1, 2, and 3 (see “Process 1”, “Process 2” and “Process 3” cases on the block diagram). Because of this, incoming messages from the Main – Interrupt Process VI can enqueue messages between Process 1, 2, and 3.  
     
   Messages coming in from another source could interrupt the QDMH and potentially cause significant errors. To prevent this, incoming messages from another source should be controlled in some manner.
6. Click **OK** to stop Main – Interrupt Process.vi.
7. Click **OK** to stop Main – Process.vi.

**Interrupting Main Process (Protected)**

1. From the Project Explorer, open Main – Process – Protected.vi.
2. Run the Main – Process – Protected VI.
3. Run the Main – Interrupt Process VI, and click the **Interrupt Process** button several times.
4. Notice that the Recent Cases indicator on the Main – Process – Protected VI shows that the **Interrupt Process** case will never interrupt the Process 1 🡪 Process 2 🡪 Process 3 sequence.  
     
   The Main – Process – Protected VI enqueues Process 1, 2, and 3 at the same time with no wait time to ensure that no other messages are enqueued between them (see the Timeout case in the “No Action” case).

**Note:** Another way to prevent interruptions is to write code to intercept incoming messages and handle where to insert the message in the QDMH.