





Missed Signals

Missed Signals

A missed signal happens when a signal is sent by a thread before the other thread starts waiting on a condition. This is exemplified by the following code snippet. Missed signals are caused by using the wrong concurrency constructs. In the example below, a condition variable is used to coordinate between the **signaller** and the **waiter** thread. The condition is signaled at a time when no thread is waiting on it causing a missed signal.

In later sections, you'll learn that the way we are using the condition variable's await method is incorrect. The idiomatic way of using await is in a while loop with an associated boolean condition. For now, observe the possibility of losing signals between threads.

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```
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43
             });
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45
46
             sign
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             sign
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49
             wait
50
             wait
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52
             Syst
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         }
    }
54
55
```

Missed Signal Example

The above code when ran, will never print the statement **Program Exiting** and execution would time out. Apart from refactoring the code to match the idiomatic usage of condition variables in a while loop, the other possible fix is to use a **semaphore** for signalling between the two threads as shown below

```
1
    import java.
 2
 3
    class Demons
 4
 5
         public s
 6
             Fixe
 7
         }
    }
 8
 9
10
    class FixedM
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12
         public s
13
             fina
```

Fixed Missed Signal

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