The Countedown Event

Revisiting Autoresettvent



thread inserts ticket to let 1 thread through





Revisiting ManualResettvent

thread inserts ticket to manually close gate

Cesel()



thread inserts ticket to let <u>all</u> threads through, gate remains open

threads line up to wait

waitone()

Desired Dehoulour

thread inserts ticket to manually close gate



3 threads insert a
ticket; gate opens when
third ticket is inserted
and remains open

COUNTOWNER

thread inserts ticket to manually close gate

Cesel()



3 threads insert a
ticket; gate opens when
third ticket is inserted
and remains open

Signal()



COMMONTALICA

thread inserts ticket to manually close gate

Resel()

increase lickel count

AddCount()

TryAddCount()



3 threads insert a ticket; gate opens when third ticket is inserted and remains open

Signal()



Three different reset events

- AutoResetEvent: 1 thread signals another thread to do something. Example: signal to consumers that new work has arrived.
- ManualResetEvent: 1 thread signals many threads to do something. Example: suspend and resume all consumers
- CountdownEvent: many threads signal 1 thread to do something. Example: wait until all consumers have quit