

# A quick puzzle about security and synchronization

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 [devblogs.microsoft.com/oldnewthing/20050606-34](http://devblogs.microsoft.com/oldnewthing/20050606-34)

June 6, 2005



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This quick puzzle floated past one of our internal discussion groups.

```
// in process A
hEventA = CreateEvent(NULL, FALSE, TRUE, TEXT("MyNamedEvent"));
// in process B
hEventB = OpenEvent(EVENT_MODIFY_STATE, FALSE, TEXT("MyNamedEvent"));
WaitForSingleObject(hEventB, INFINITE);
```

In Process B, the `OpenEvent` succeeds, but the `WaitForSingleObject` returns immediately instead of waiting. Explain.

[Correction: I confused the matter by passing `TRUE` as the third parameter, thereby creating an event that is initially signalled. Change it to `FALSE` so that the event is created non-signalled, in which case the `WaitForSingleObject` would be expected to wait.]



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