

七日做茧,一朝成蝶!



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创建事件内核对象:

```
HANDLE CreateEvent(
    LPSECURITY_ATTRIBUTES lpEventAttributes,
    BOOL bManualReset,
    BOOL bInitialState,
    LPCTSTR lpName
);
```

bManualReset:手动重置(TRUE),自动重置(FALSE)

bInitialState:初始状态(TRUE:已触发,FALSE:未触发)

创建事件内核对象:

```
HANDLE CreateEventEx(
    LPSECURITY_ATTRIBUTES lpEventAttributes,
    LPCTSTR lpName,
    DWORD dwFlags,
    DWORD dwDesiredAccess
);
```

```
dwFlags: CREATE_EVENT_MANUAL_RESET(1), CREATE_EVENT_INITIAL_SET(2) bManualReset, bInitialState
```

打开事件内核对象:

设置事件内核对象,设置状态为已触发:

```
BOOL SetEvent(
HANDLE hEvent
);
```

设置事件内核对象,设置状态为未触发:

```
BOOL ResetEvent(
HANDLE hEvent
);
```

```
HANDLE g hEvent;
int main(void)
g_hEvent = CreateEvent(NULL, FALSE, FALSE, NULL); //自动重置,初态为未触发
SetEvent(g_hEvent); //触发事件对象
HANDLE hThread;
hThread = (HANDLE)_beginthreadex(NULL, 0, (_beginthreadex_proc_type)BaoShu1, NULL, 0, NULL);
WaitForSingleObject(hThread, INFINITE);
CloseHandle(g_hEvent);
CloseHandle(hThread);
return 0;
```

```
//线程运行完毕后自动设置为未触发
DWORD WINAPI BaoShu1(LPVOID *lparam)
        WaitForSingleObject(g hEvent, INFINITE);
        for (int i = 0; i < 10; i++)
                printf("1\n");
        return 0;
```

```
HANDLE g hEvent;
int main(void)
g_hEvent = CreateEvent(NULL, TRUE, FALSE, NULL); //手动重置,初态为未触发
SetEvent(g_hEvent); //触发事件对象
HANDLE hThread;
hThread = (HANDLE)_beginthreadex(NULL, 0, (_beginthreadex_proc_type)BaoShu1, NULL, 0, NULL);
WaitForSingleObject(hThread, INFINITE);
CloseHandle(g_hEvent);
CloseHandle(hThread);
return 0;
```

```
//线程运行完毕后一直保持触发状态, ResetEvent可重置
DWORD WINAPI BaoShu1(LPVOID *lparam)
        WaitForSingleObject(g hEvent, INFINITE);
        for (int i = 0; i < 10; i++)
                printf("1\n");
        ResetEvent(g hEvent);
        return 0;
```

编码实战



Thank You!