

# System.Threading.ThreadAbortException Class

```
[ILASM]
.class public sealed serializable ThreadAbortException
extends System.SystemException

[C#]
public sealed class ThreadAbortException: SystemException
```

## Assembly Info:

- Name: mscorlib
- Public Key: [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- Version: 1.0.x.x
- Attributes:
  - CLSCompliantAttribute(true)

## Summary

Thrown by the system when a call is made to **System.Threading.Thread.Abort**.

## Inherits From: System.SystemException

**Library:** BCL

**Thread Safety:** All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

## Description

Instances of this exception type can only be created by the system.

When a call is made to **System.Threading.Thread.Abort** to terminate a thread, the system throws a **System.Threading.ThreadAbortException** in the target thread. **System.Threading.ThreadAbortException** is a special exception that can be caught by application code, but is rethrown at the end of the catch block unless **System.Threading.Thread.ResetAbort** is called. When the **ThreadAbortException** exception is raised, the system executes any **finally** blocks for the target thread. The finally blocks are executed even if **System.Threading.Thread.ResetAbort** is called. If the abort is successful, the target thread is left in the **System.Threading.ThreadState.Stopped** and **System.Threading.ThreadState.Aborted** states.

## 1 Example

3 The following example demonstrates aborting a thread. The thread  
4 that receives the **System.Threading.ThreadAbortException** uses  
5 the **System.Threading.Thread.ResetAbort** method to cancel the  
6 abort request and continue executing.

7  
8 [C#]

```
9 using System;
10 using System.Threading;
11 using System.Security.Permissions;
12
13 public class ThreadWork {
14     public static void DoWork() {
15         try {
16             for (int i=0; i<100; i++) {
17                 Console.WriteLine("Thread - working.");
18                 Thread.Sleep(100);
19             }
20         }
21         catch (ThreadAbortException e) {
22             Console.WriteLine("Thread - caught
23 ThreadAbortException - resetting.");
24             Thread.ResetAbort();
25         }
26         Console.WriteLine("Thread - still alive and working.");
27         Thread.Sleep(1000);
28         Console.WriteLine("Thread - finished working.");
29     }
30 }
31
32 class ThreadAbortTest{
33     public static void Main() {
34         ThreadStart myThreadDelegate = new
35 ThreadStart(ThreadWork.DoWork);
36         Thread myThread = new Thread(myThreadDelegate);
37         myThread.Start();
38         Thread.Sleep(100);
39         Console.WriteLine("Main - aborting my thread.");
40         myThread.Abort();
41         myThread.Join();
42         Console.WriteLine("Main ending.");
43     }
44 }
45
```

46 The output is

47  
48 Thread - working.

```
1
2     Main - aborting my thread.
3
4
5     Thread - caught ThreadAbortException - resetting.
6
7
8     Thread - still alive and working.
9
10
11    Thread - finished working.
12
13
14    Main ending.
15
16
```

# 1 ThreadAbortException.ExceptionState

## 2 Property

```
3 [ILASM]
4 .property object ExceptionState { public hidebysig
5 specialname instance object get_ExceptionState() }
6
7 [C#]
8 public object ExceptionState { get; }
```

### 8 Summary

9 Gets an object that contains application-specific information related to  
10 the thread abort.

### 11 Property Value

12

13 A **System.Object**.

### 14 Description

15 This property is read-only.

16

17 The object returned by this property is specified via the *stateInfo*  
18 parameter of **System.Threading.Thread.Abort**. This property  
19 returns **null** if no object was specified, or the  
20 **System.Threading.Thread.Abort** method with no parameters was  
21 called. The exact content and usage of this object is application-  
22 defined; it is typically used to convey information that is meaningful to  
23 the thread being aborted.

24