

Forum:[Hack Forums](#)

Thread: [Thread write to File, is write Duplicate strings](#)

dor343232 - November 12, 2019, 7:16 pm

i have problem if i run my multi Thread to write file i get 2 type of error

run like 50 Thread or 500 same Problem.

```
Thread myNewThread = new Thread(() => Start(lines));  
myNewThread.Start();
```

- 1) System.IO.IOException: The process cannot access the file
- 2) is write 2 - 5 times the same line ..

how can i fix it ? ? ?

Eternal Darkness - November 12, 2019, 7:37 pm

(Nov 12, 2019 08:16 PM)dor343232 Wrote: [\[CITE\]](#) i have problem if i run my multi Thread to write file i get 2 type of error

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[Locking](#). (Perhaps some more good documentation: [readerwriterlock](#))

Cannot write to a file with more than one operation at a time. Need to make sure that you only write to the file when you have access to the "locked door" (file is not currently being written to in another thread, in this instance).

What may be simpler/easier is to add the output to some [Data Structure](#) (Think: List, Array, Queue, etc) and output to file in a single write instead.

Examples with locks:

<https://www.codeproject.com/Tips/1190802/File-locking-in-a-multi-threaded-environment>

<https://codereview.stackexchange.com/a/49161>

dor343232 - November 12, 2019, 8:50 pm

(Nov 12, 2019 08:37 PM)Eternal Darkness Wrote: [\[CITE\]](#) [Locking](#). (Perhaps some more good documentation: [readerwriterlock](#))

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What may be simpler/easier is to add the output to some [Data Structure](#) (Think: List, Array, Queue, etc) and output to file in a single write instead.

Examples with locks:

[File Locking in a Multi Threaded Environment - CodeProject](#)

[c# - Writing to file in a thread safe manner - Code Review Stack Exchange](#)

i am still new in C# any more Example ??

like more easy ?

Eternal Darkness - November 12, 2019, 9:16 pm

(Nov 12, 2019 09:50 PM)dor343232 Wrote: [\[CITE\]](#) i am still new in C# any more Example ??

like more easy ?

```
Code private object locker = new Object();
```

```
public void WriteToFile(String path, String text) {
```

```
    lock (locker) {
```

```
        System.IO.File.AppendAllText(path, text);
```

```
//https://docs.microsoft.com/en-us/dotnet/api/system.io.file.appendalltext?view=netframework-4.8
```

```
    }
```

```
}call: WriteToFile(@"C:\...\whateverfile.txt", variable);
```

"Easy" ([version of](#)), no [error handling](#)/etc (definitely wanted).

dor343232 - November 12, 2019, 10:13 pm

(Nov 12, 2019 10:16 PM)Eternal Darkness Wrote: [\[CITE\]](#) Code private object locker = new Object();

```
public void WriteToFile(String path, String text) {
```

```
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```

```
        System.IO.File.AppendAllText(path, text); //\[url=https://#/a8n\]File.AppendAllText Method
```

```
\(System.IO\) | Microsoft Docs\[url\]
```

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Got error

```
Thread myNewThread = new Thread(() => Start(ArrayLines));
```

```
myNewThread.Start();
```

An object reference is required for the non-static field, method, or property

```
'Program.StartBrut(string[])
```

Eternal Darkness - November 12, 2019, 11:16 pm

(Nov 12, 2019 11:13 PM)dor343232 Wrote: [\[CITE\]](#) Got error

```
Thread myNewThread = new Thread(() => Start(ArrayLines));
```

```
myNewThread.Start();
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An object reference is required for the non-static field, method, or property

'Program.StartBrut(string[])

Got it to work in a min.

I assume ArrayLines is inaccessible (at wherever you are starting this thread)?

private object locker is a global variable meaning it is outside of any functions/methods (voids). Not sure how it could be my code, other than the global var being misplaced/something...

Want to post your code? Can tell what it is based off method name.

Btw, ideally you should start a thread like: <https://stackoverflow.com/a/3360586> (Needs to be object parameter). (Relatively Small Difference)

dor343232 - November 13, 2019, 1:56 am

(Nov 13, 2019 12:16 AM)Eternal Darkness Wrote: [\[CITE\]](#) Got it to work in a min.

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Want to post your code? Can tell what it is based off method name.

Btw, ideally you should start a thread like: [c# - How to pass parameters to ThreadStart method in Thread? - Stack Overflow](#) (Needs to be object parameter). (Relatively Small Difference)

THX !