# Chapter 1: Managed Threading Concepts

$\fbox$ Microsoft Visual Studio Debug $ imes$ + $ imes$	-	×
Hello, World!		
Main thread working		
Main thread working Done		
Jone Is network available? Answer: True		
Is network available? Answer: True		
Is network available: Answer: True		
Is network available? Answer: True		
Is network available? Answer: True		
Is network available? Answer: True		
Is network available? Answer: True		
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Is network available? Answer: True		

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Hello, World!			
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Is network available? Answer: 1	True		
Main thread working			
Is network available? Answer: 1	True		
Main thread working			
Is network available? Answer: 1	True		
Main thread working			
Is network available? Answer: 1	True		
Main thread working			
Is network available? Answer: 1	True		
Main thread working			
Is network available? Answer: 1	True		
Main thread working	_		
Is network available? Answer: 1			
Is network available? Answer: 1	True		
Main thread working			
Main thread working	-		
Is network available? Answer: 1	Irue		
Done	Terra		
Is network available? Answer: 1 Is network available? Answer: 1			
Is network available? Answer: I Is network available? Answer: I			
IS Network available? Answer: I	True		

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Thread priority AboveNormal; Is network available? Answer: True		
Thread priority Highest; Is network available? Answer: True		
Thread priority Highest; Is network available? Answer: True		
Thread priority Highest; Is network available? Answer: True		
Thread priority AboveNormal; Is network available? Answer: True		
Thread priority Normal; Is network available? Answer: True		
Thread priority Highest; Is network available? Answer: True		
Thread priority Highest; Is network available? Answer: True		
Thread priority BelowNormal; Is network available? Answer: True		
Thread priority Highest; Is network available? Answer: True		
Thread priority Normal; Is network available? Answer: True		
Thread priority AboveNormal; Is network available? Answer: True		
Thread priority AboveNormal; Is network available? Answer: True		
Thread priority AboveNormal; Is network available? Answer: True		
Thread priority Lowest; Is network available? Answer: True		
Thread priority Normal; Is network available? Answer: True		
Thread priority BelowNormal; Is network available? Answer: True		
Thread priority Normal; Is network available? Answer: True		
Thread priority BelowNormal; Is network available? Answer: True		
Thread priority Normal; Is network available? Answer: True		
Thread priority Normal; Is network available? Answer: True		
Thread priority BelowNormal; Is network available? Answer: True		
Thread priority Lowest; Is network available? Answer: True		
Thread priority BelowNormal; Is network available? Answer: True		
Thread priority BelowNormal; Is network available? Answer: True		
Thread priority Lowest; Is network available? Answer: True		
Thread priority Lowest; Is network available? Answer: True		
Thread priority Lowest; Is network available? Answer: True		
Thread priority Lowest; Is network available? Answer: True		

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Hello, World!		
Main thread working		
Main thread working		
Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Is network available? Answer: True		
Is network available? Answer: True		
Main thread working		
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Is network available? Answer: True		
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Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Is network available? Answer: True		
Is network available? Answer: True		
Done		

# Chapter 2: Evolution of Multi-Threaded Programming in .NET

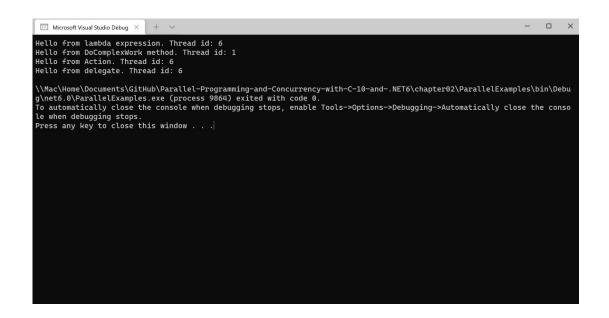


 Image: Merosoft Visual Studio Debug × + v
 - Image: New York

 The current time does not contain number 1. Thread id: 1

 The current time does not contain number 9. Thread id: 6

 The current time contains number 0. Thread id: 1

 The current time contains number 0. Thread id: 1

 The current time contains number 0. Thread id: 1

 The current time contains number 0. Thread id: 1

 The current time contains number 5. Thread id: 1

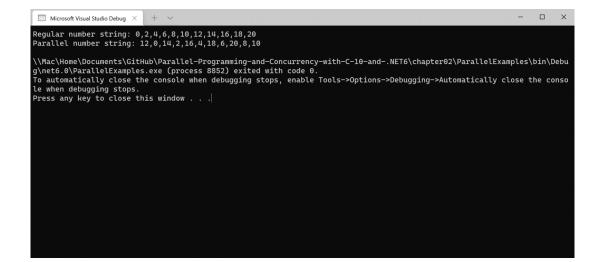
 The current time contains number 5. Thread id: 1

 \Mac\Home\Documents\GitHub\Parallel-Programming-and-Concurrency-with-C-10-and-.NET6\chapter02\ParallelExamples\bin\Debu

 Qhet6.0\ParallelExamples.exe (process 11548) exited with code 0.

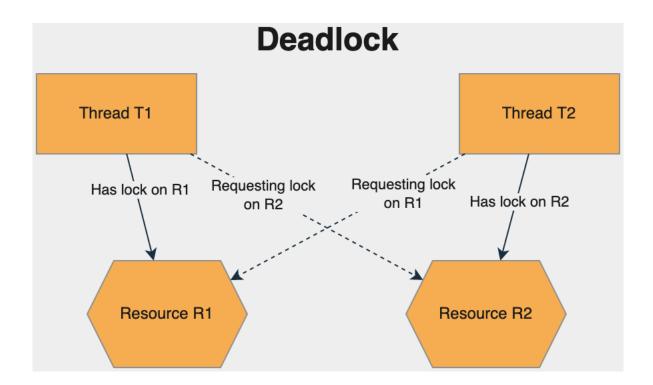
 To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

 Press any key to close this window . . .



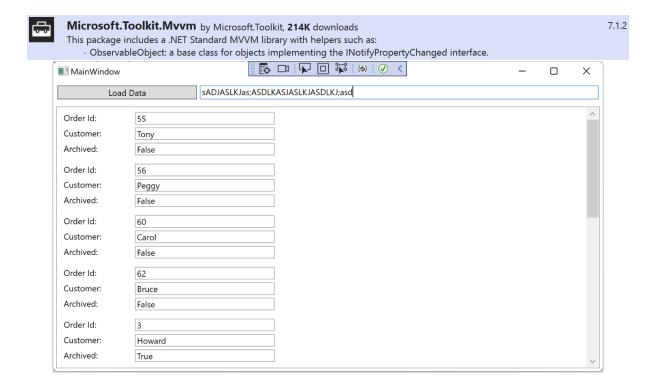
□ \\Mac\Home\Documents\GitHu × + ∨	-	$\times$
Hello, World!		
Main thread working		
Main thread working		
Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Is network available? Answer: True		
Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Main thread working		
Main thread working		
Is network available? Answer: True		
Is network available? Answer: True		
Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Main thread working		
Is network available? Answer: True		
Is network available? Answer: True		
Is network available? Answer: True		
Done		





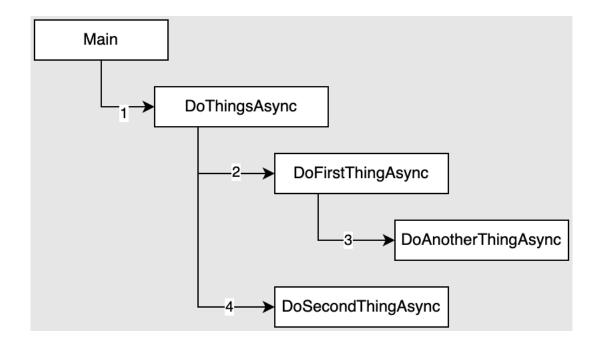
#### **Chapter 4: User Interface Responsiveness with Threading**

So	lution 'AwaitWithWpf' (1 of 1 project)
C#	AwaitWithWpf
⊳	🕶 Dependencies
⊳	💭 App.xaml
	C# AssemblyInfo.cs
$\triangleright$	C# MainViewModel.cs
⊳	💭 MainWindow.xaml
Þ	C# Order.cs



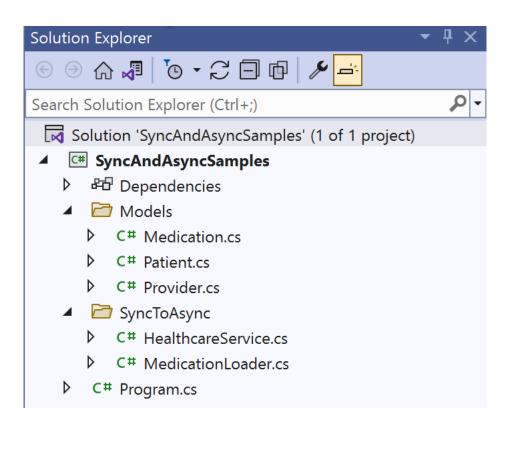
Form1	_	×
John Doe		
Run in Background	Run on Main Thread	

#### **Chapter 5: Asynchronous Programming with C#**





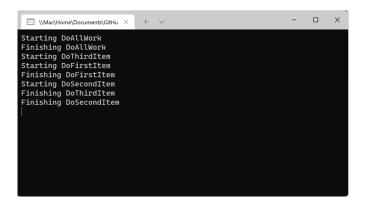
□ Microsoft Visual Studio Debug( × +  ∨		- 0	×
Did something in DoAnotherThingAsync			
Did something in DoFirstThingAsync			
Doing something in DoSecondThingAsync			
Did something in DoSecondThingAsync			
Did things in DoThingsAsync			
Continue processing			
Doing things in DoingThingsWrongAsync			
Doing something in DoFirstThingAsync			
Doing something in DoAnotherThingAsync			
Doing something in DoSecondThingAsync			
Did something in DoSecondThingAsync			
Did things in DoingThingsWrongAsync			
Continue processing			
Doing things in DoBlockingThingsAsync			
Doing something in DoFirstThingAsync			
Doing something in DoAnotherThingAsync			
Did something in DoAnotherThingAsync			
Did something in DoFirstThingAsync			
Did something in DoAnotherThingAsync			
Did something in DoFirstThingAsync			
Doing something in DoSecondThingAsync			
Did something in DoSecondThingAsync			
Did things in DoBlockingThingsAsync			
Done processing			
			,
\\Mac\Home\Documents\GitHub\Parallel=Programming=and=Concurrency=with=C=10=and=.NET6\chapter05	\AsyncSamples\bi	in/Debu	g\ne
t6.0\AsyncSamples.exe (process 11940) exited with code 0.			
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Aut	omatically close	e the co	onso
le when debugging stops.			
Press any key to close this window			

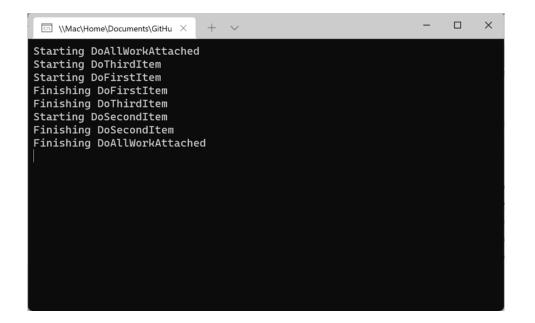


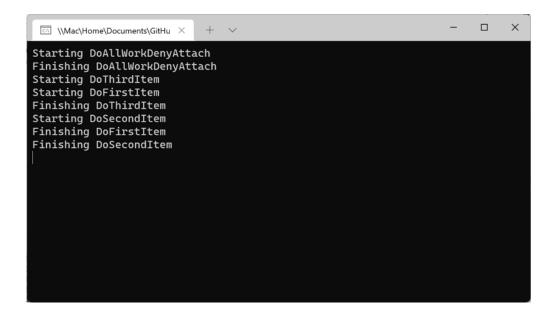
### **Chapter 6: Parallel Programming Concepts**

Parallel Loops				
File Processor				
Folder to Process				
		Browse	Process	
Results			þ	
	0			
olderToProcessDialog				

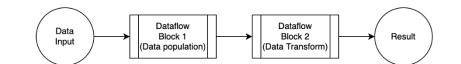
Parallel Loops	_		×
File Processor			
Folder to Process			
C:\Python310\Lib	Browse	Proces	ss
Results			
Total file count: 167; Total file size: 4733495 bytes Last written file: poplib.py at 12/7/2021 12:27:56 AM			



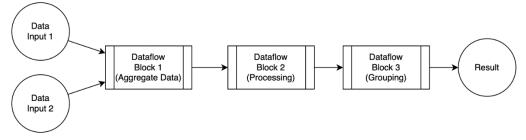




#### Chapter 7: Task Parallel Library (TPL) and Dataflow



Example 1 - Load and transform data with dataflow pipeline



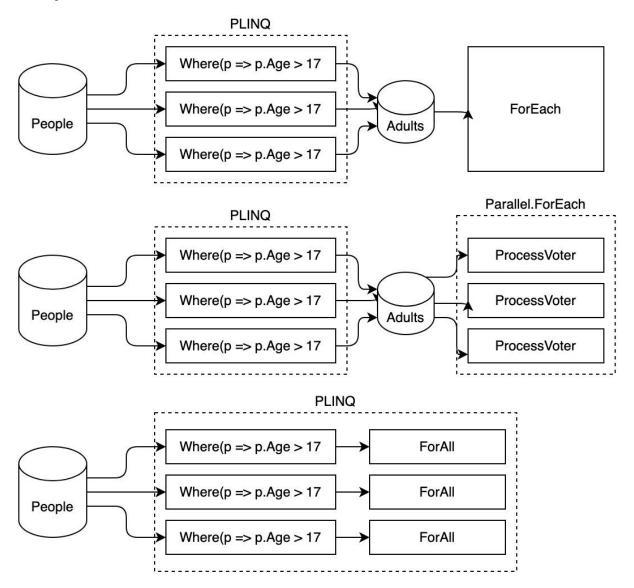
Example 2 - Aggregate, process, and group data with dataflow pipeline

└\\Mac\Home\Documents\GitHu × + ∨	-	×
Hello, World!		
Fetching feed from 'https://blogs.windows.com/feed'		
Getting category list		
De-duplicating category list		
Extracting category names		
Found CATEGORY PC		
Found CATEGORY AGE OF EMPIRES IV		
Found CATEGORY PC GAMES		
Found CATEGORY PC GAMING		
Found CATEGORY UNCATEGORIZED		
Found CATEGORY ANNOUNCEMENTS		
Found CATEGORY INSIDER		
Found CATEGORY PERFORMANCE		
Found CATEGORY SLEEPING TABS		
Found CATEGORY WINDOWS INSIDER PROGRAM		
Found CATEGORY HARDWARE PARTNERS		
Found CATEGORY SUSTAINABILITY		
Found CATEGORY WINDOWS 11		
Found CATEGORY MINECRAFT		
Found CATEGORY HYBRID WORK		
Found CATEGORY BASKETBALL		
Found CATEGORY FORGE OF EMPIRES		
Found CATEGORY CANDY CRUSH SAGA		

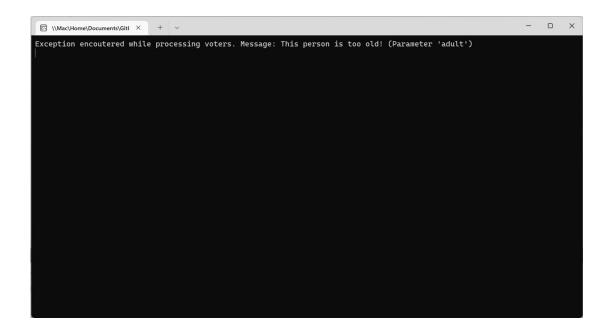
String received: one Integer received: 1 String received: 2 String received: 2 String received: three Integer received: 3 Complete

\\Mac\Home\Documents\GitHub\Parallel-Programming-and-Concurrency-with-C-10-and-.NET6\chapter07\JoinBlockExample\bin\Debu g\net6.0\JoinBlockExample.exe (process 8320) exited with code 0. To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso le when debugging stops. Press any key to close this window . . .

- 🗆 ×



# **Chapter 8: Parallel Data Structures and Parallel LINQ**



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Start time: 10:34:46.211 AM. AsParallel children: Richard Sally Joe Lisa			
Start time: 10:34:46.451 AM. AsUnordered children: Sally Richard Joe Lisa			
Start time: 10:34:46.510 AM. Sequential after Where children: Richard Sally Joe Lisa			
Start time: 10:34:46.520 AM. AsOrdered children: Sally Joe Lisa Richard			
Start time: 10:34:46.570 AM. Reverse order children: Richard Lisa Joe Sally			
Finish time: 10:34:46.636 AM			

Start time: 10:49:25.352 AM. NoMerge children: Sally Joe Lisa Start time: 10:49:25.553 AM. DefaultMerge children: Sally Joe Lisa Start time: 10:49:25.558 AM. AutoBuffered children: Sally Joe Lisa Start time: 10:49:25.560 AM. NotBuffered children: Sally Joe Lisa Start time: 10:49:25.562 AM. FullyBuffered children: Sally Joe Lisa Finish time: 10:49:25.580 AM - 0 ×

### **Chapter 9: Working with Concurrent Collections in .NET**

0

ParallelExtensionsExtras.NetFxStandard by Microsoft, Sergey Volkov, 13.6K downloads Parallel Extensions for the .NET Framework and .NET Standard. For examples of how to use this library, please visit https://devblogs.microsoft.com/pfxteam/tag/parallelextensionsextras/

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5/21/2022			
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Parser count: 0			
Data index: 10			
5/21/2022			
Data index: 4			
5/21/2022			
Parser count: 0			
Parser count: 0			
Data index: 14			
5/21/2022			
Parser count: 0			
Data index: 5			
5/21/2022			
Data index: 11			
5/21/2022			
Parser count: 7			
Data index: 6			
5/21/2022			
Parser count: 6			
Parser count: 7			
Data index: 12			
5/21/2022			
Parser count: 5			
Data index: 13			
5/21/2022			
Parser count: 4			
Press the Enter key to exit.			

Lookup Drug by NDC Co	de	
Load Data		
NDC Code:		
	Lookup Drug	
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Lookup Drug by NDC C	ode	—	Х
Load Data			
NDC Code:			
70518-1120	Lookup Drug		
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Hello, World!			
Widget for customer 1			
Widget for customer 2			
Widget for customer 1			
Widget for customer 2			
Widget for customer 1			
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Widget for customer 2			
Widget for customer 1			
Widget for customer 2			
Widget for customer 2			
\\Mac\Home\Documents\GitHub\Parallel-Programming-and-Concurrency-with-C-10-andNET6\chapter09\ Debug\net6.0\ConcurrentOrderQueue.exe (process 15928) exited with code 0.	ConcurrentOrderQu	eue\bi	.n\
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Autor le when debugging stops.	matically close t	he con:	50
Press any key to close this window			

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## **Chapter 10: Debugging Multi-Threaded Applications with Visual Studio**

Process:	▼ Ilifecycle Events ▼ Thread:	▼ 🏴 🔊 >> Stack Frame:	· · ·

🔹 📰 Lifecycle Events \* Thread:

Process:

Search P - 🕫 🏴					Group by: Proces	ss ID 🔹 Columns 🔹 🖽 🖽 拱 🗖 💵 🕨
		ID	Managed ID	Category	Name	Location
<b>^</b> F	Proc	ess ID:	2040 (7 threads)			
Ро		8712	1	🖂 Main Thread	Main Thread	<ul> <li>System.Console.dll!System.ConsolePal.ReadKey</li> </ul>
Po		1004	4	🚳 Worker Thread	.NET ThreadPool Worker	<ul> <li>System.Private.CoreLib.dll!System.Threading.Monitor.Wait</li> </ul>
Po		5624	5	🔊 Worker Thread	.NET ThreadPool Gate	<ul> <li>System.Private.CoreLib.dll!System.Threading.WaitHandle.WaitOneNoCheck</li> </ul>
Pa		752	6	💣 Worker Thread	.NET ThreadPool Worker	<ul> <li>System.Private.CoreLib.dll!Interop.Kernel32.GetQueuedCompletionStatus</li> </ul>
Po		0	0	? Unknown Thread	[Thread Destroyed]	<not available=""></not>
Po		9260	9	🔊 Worker Thread	<no name=""></no>	<ul> <li>BackgroundPingConsoleApp.dll!Program.<main>\$.AnonymousMethod0_0</main></li> </ul>
Ро		9264	0	🔊 Worker Thread	<no name=""></no>	<not available=""></not>

				🔁 🝷 📲 Group by:	
	ID	Managed ID	Category	Name	Location
<ul> <li>Pro</li> </ul>	cess ID: 6	6424 (1 thread)			
₽	10108	8	ම් Worker Thread	<no name=""></no>	<ul> <li>BackgroundPingConsoleApp.dll!Program.<main>\$.AnonymousMethod_0_( BackgroundPingConsoleApp.dll!Program.<main>\$.AnonymousMethod_0_0 [External Code]</main></main></li> </ul>

Sear	ch				For the second s	cess ID 🔹 Columns 🔹 🖽 🖽 🗭 💷
		ID	Managed ID	Category	Name	Location
<b>^</b> F	roce	ess ID: 6	424 (2 threads)			
Po		10908	1	🖂 Main Thread	Main Thread	<ul> <li>System.Console.dll!System.ConsolePal.ReadKey</li> </ul>
Po	⇔	10108	8	ම් Worker Thread	<no name=""></no>	<ul> <li>BackgroundPingConsoleApp.dll!Program.<main>\$.AnonymousMethod_0_( BackgroundPingConsoleApp.dll!Program.<main>\$.AnonymousMethod_0_0</main></main></li> <li>[External Code]</li> </ul>

Thre	ads					<b>▼</b> ‡			
Sear	ch			<u>م</u> - م	🔁 🖌 🖓 Group by: Proc	ess ID 🗾 🗸 Columns 🗸 🗷 🖃 🛨 🖃 🔳 🕨			
		ID	Managed ID	Category	Ҏ Flag Just My Code	1			
<ul> <li>Process ID: 6424 (7 threads)</li> </ul>			424 (7 threads)	-	Flag Custom Module Selection				
₽		10908	1	🗢 Main Thread	Main Thread	System.Console.dll!System.ConsolePal.ReadKey			
Ρυ		4612	3	🔊 Worker Thread	.NET ThreadPool Worker	<ul> <li>System.Private.CoreLib.dll!System.Threading.Monitor.Wait</li> </ul>			
Pa		10304	4	💣 Worker Thread	.NET ThreadPool Gate	✓ System.Private.CoreLib.dll!System.Threading.WaitHandle.WaitOneNoCheck			
Po		9200	5	@ Worker Thread	.NET ThreadPool Worker	<ul> <li>System.Private.CoreLib.dll!Interop.Kernel32.GetQueuedCompletionStatus</li> </ul>			
Ро		5704	0	💣 Worker Thread	<no name=""></no>	<not available=""></not>			
Po		10352	0	🔊 Worker Thread	<no name=""></no>	<not available=""></not>			
Ρυ	⇔	10108	8	💣 Worker Thread	<no name=""></no>	<ul> <li>BackgroundPingConsoleApp.dll!Program.<main>\$.AnonymousMethod_0_C</main></li> <li>BackgroundPingConsoleApp.dll!Program.<main>\$.AnonymousMethod_0_0</main></li> </ul>			
						[External Code]			

ear	ch				🔁 🕶 🔊 Group by: Proc	ess ID 🔹 Columns 🔹 🖽 🖽 🗐 🚺 🕨
		ID	Managed ID	Category	Name	Location
<b>^</b> F	roce	ess ID: 6	972 (6 threads)			
Po	⇔	8940	1	🖂 Main Thread	Main Thread	<ul> <li>BackgroundPingConsoleApp.dll!Program.<main>\$</main></li> </ul>
Ъ		8716	3	🔊 Worker Thread	.NET ThreadPool Worker	<ul> <li>System.Private.CoreLib.dll!System.Threading.Monitor.Wait</li> </ul>
Ъ		5044	4	🔊 Worker Thread	.NET ThreadPool Gate	System.Private.CoreLib.dll!System.Threading.WaitHandle.WaitOneNoCheck
Ъ		11032	5	🔊 Worker Thread	.NET ThreadPool Worker	✓ System.Private.CoreLib.dll!Interop.Kernel32.GetQueuedCompletionStatus
b		9768	0	🔊 Worker Thread	<no name=""></no>	<not available=""></not>
b		5180	8	🔊 Worker Thread	<no name=""></no>	✓ BackgroundPingConsoleApp.dll!Program. <main>\$.AnonymousMethod_0_0</main>
utp	out	Locals	Watch 1 Thread	ls		

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100% [8940] Main Thread ▷ Program. <main>\$</main>	[5180] <no name=""> ➢ Program.<main>\$.AnonymousMethod_0_0 [External Code] [External Code]</main></no>	
Parallel Stacks Diagnostic Tools		

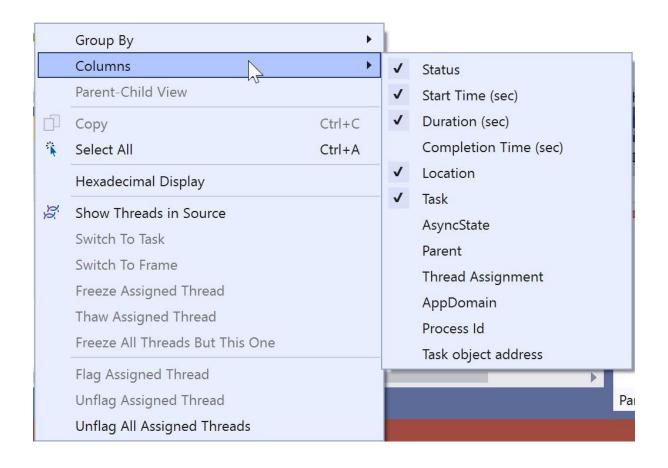
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	Async Logical Stack Initialize.AnonymousMethod_0		
Parallel Stacks Diagnostic	Tools		

Parallel S	tacks			<b>-</b> ₽×
Search (0	Ctrl+E)	Tasks 🔻		
100%				
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	ContinuationTaskFromResultTask<>.InnerInvoke			
	Taskcctor.AnonymousMethod_272_0			
	ExecutionContext.RunFromThreadPoolDispatchl			
	Task.ExecuteWithThreadLocal			
	Task.ExecuteEntryUnsafe			
	Task.ExecuteFromThreadPool			
	ThreadPoolWorkQueue.Dispatch			
	WorkerThread.WorkerThreadStart			
	Thread.StartCallback			
	1 Async Logical Stack			
	Start < StartupHook.			
	StartupHook.Initialize.AnonymousMethod_0			
	Task.Run			
2				
Parallel S	tacks Diagnostic Tools			
i aranel 5	Bughostic tools			

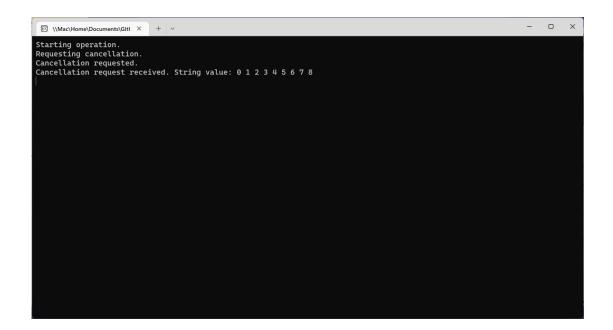
Para	llel V	Vatch 1 - TaskSampl	es.Examples.PrepareOrders		<b>-</b> ₽ ×
P		-		Filter by Boolean Expression	- م
		[Task]	😭 _sharedOrders	<add watch=""></add>	
P	$\Rightarrow$	[6]	Count = 0  Q View ▼		
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i ara	net v	Call Stack	Exception Securitys miniealate (		

Para	llel V	Vatch 1 - TaskSamples.	Examples.Proc	essOrders			<b>-</b> ₽ ×
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P	Ð	[3952]	Count = 0	Q View ▼			
Para	llel V	Vatch 1 Call Stack E	xception Setti	ngs Immedi	ate Window		

se <tresult>.Invoke(completingTask</tresult>
lass1_0. <processorders>b0</processorders>
nitialize>b_0



# **Chapter 11: Cancelling Asynchronous Work**



E \\Mac\Home\Documents\Gitt × + ∨	-	×
Press a key to start, then press 'x' to send cancellation. cx press a key		
Text value: 0 37500 1 37501 37502 2 . Exception encountered: The operation was canceled.		

(Mac\Home\Documents\Gitl ×	< + v -	- C	 <
Press a key to start. Requesting cancel. Cancel requested.			
Exception encountered: T	The query has been canceled via the token supplied to WithCancellation.		

☐ \\Mac\Home\Documents\Gitl × + ∨	-	×
Hello, World! Press a key to start, then press 'x' to cancel.		
cPoint with small X coordinate found. Value: 31 Point with small X coordinate found. Value: 7		
Point with small X coordinate found. Value: 21		
Point with small X coordinate found. Value: 46		
Point with small X coordinate found. Value: 49		
Point with small X coordinate found. Value: 32		
Point with small X coordinate found. Value: 33		
Point with small X coordinate found. Value: 9		
Point with small X coordinate found. Value: 13		
Point with small X coordinate found. Value: 9		
Point with small X coordinate found. Value: 13		
Point with small X coordinate found. Value: 39 Point with small X coordinate found. Value: 39		
Point with small X coordinate found. Value: 14		
Point with small X coordinate found. Value: 41		
Press a key to quit		

☑ \\Mac\Home\Documents\Gitl × + ∨	-	×
Starting download Download canceled. Exception: The operation was canceled.		

☑ \\Mac\Home\Documents\Giti × + ∨	-	0	×
Use x to cancel, p to pause, or s to start or resume, Use any other key to quit the program. Found even number: 0 Found even number: 2 Found even number: 4			
Found even number: 6 Found even number: 8 Found even number: 10			
peration canceled.			

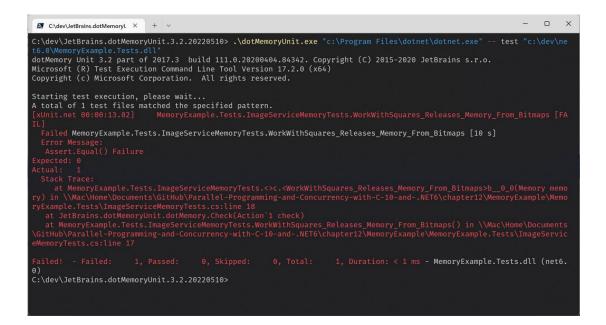
# Chapter 12: Unit Testing Async, Concurrent, and Parallel Code

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Test run finished: 4 Tests (4 Passed, 0 Failed, 0 Skipped) run in 2.4 sec				
Test	Duration	Traits	Error Message	
▲ 🔮 ParallelExample.Tests (4)	635 ms			
▲ 🛇 ParallelExample.Tests (4)	635 ms			
▲ 📀 TextServiceTests (4)	635 ms			
ProcessText_Returns_Expected_Strings	6 ms			
ProcessText_Throws_Exception_For_Empty_String	16 ms			
ProcessTextAsync_Returns_Expected_Strings	392 ms			
ProcessTextAsync_Throws_Exception_For_Empty_String	221 ms			



#### JetBrains.dotMemoryUnit 📀 by JetBrains, 5.11M downloads

dotMemory Unit is an additional unit testing framework that allows you to write tests that check code for all kinds of memory issues. For example, these can be tests that determine leaks by checking memory for objects of a particular...



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C:\dev\JetBrains.dotMemoryUnit.3.2.20220510> .\dotMemoryUnit.exe "c:\Program Files\dotnet\dotnet.exe" tes t6.0\MemoryExample.Tests.dll" dotMemory Unit 3.2 part of 2017.3 build 111.0.20200404.84342. Copyright (C) 2015-2020 JetBrains s.r.o. Microsoft (R) Test Execution Command Line Tool Version 17.2.0 (x64) Copyright (c) Microsoft Corporation. All rights reserved.				
Starting test execution, please wait A total of 1 test files matched the specified pattern.				
Passed! - Failed: 0, Passed: 1, Skipped: 0, Total: 1, Duration: < 1 ms - MemoryExample.Test 0) C:\dev\JetBrains.dotMemoryUnit.3.2.20220510>	dll	(r	et6	