

parallel barcode decoding with barcode reader sdk in C# using ByteScout Barcode Suite

How to apply ByteScout Barcode Suite for parallel barcode decoding with barcode reader sdk in C#

These sample source codes given below will show you how to handle a complex task, for example, parallel barcode decoding with barcode reader sdk in C#. ByteScout Barcode Suite helps with parallel barcode decoding with barcode reader sdk in C#. ByteScout Barcode Suite is the bundle that provides 3 SDK products to generate barcodes (Barcode SDK), read barcodes (Barcode Reader SDK) and read and write spreadsheets (Spreadsheet SDK).

C# code snippet like this for ByteScout Barcode Suite works best when you need to quickly implement parallel barcode decoding with barcode reader sdk in your C# application. Follow the steps-by-step instructions from the scratch to work and copy and paste code for C# into your editor. Check these C# sample code examples to see if they acknowledge to your needs and requirements for the project.

If you want to try other samples for C# then free trial version of ByteScout Barcode Suite is available on our website.

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Source Code Files:

```
using System;
using System.IO;
using System.Threading;
using Bytescout.BarCodeReader;

namespace ParallelDecoding
{
    class Program
    {
        const string InputFile = @"..\example.pdf";

        // Limit to 4 threads in queue.
        // Set this value to number of your processor cores for max performance.
        private static readonly Semaphore ThreadLimiter = new Semaphore(4, 4);

        static void Main()
        {
            const int numberOfRuns = 10;
            ManualResetEvent[] doneEvents = new ManualResetEvent[numberOfRuns];

            for (int i = 0; i < numberOfRuns; i++)
            {
                // Wait for the queue
                ThreadLimiter.WaitOne();

                doneEvents[i] = new ManualResetEvent(false);

                ThreadPool.QueueUserWorkItem(new WaitCallback(delegate(object state)
                {
                    int threadIndex = (int) state;

                    Console.WriteLine("Thread #" + threadIndex + " started...");

                    try
                    {
                        Reader reader = new Reader();
                        reader.RegistrationName = "demo";
                        reader.RegistrationKey = "demo";

                        // Set barcode type to find
                        reader.BarcodeTypesToFind.Code128 = true;

                        /* -----
                        NOTE: We can read barcodes from specific page to increase performance.
                        For sample please refer to "Decoding barcodes from PDF by pages"
                        ----- */

                        // Read barcodes
                        FoundBarcode[] barcodes = reader.ReadFrom(InputFile);

                        Console.WriteLine("Thread #" + threadIndex + " finished with "

                                // Cleanup
```

```
        reader.Dispose();
    }
    catch (Exception exception)
    {
        Console.WriteLine("Thread #" + threadIndex + " failed with exc
    }
    finally
    {
        // Signal the thread is finished
        doneEvents[threadIndex].Set();

        // Release semaphore
        ThreadLimiter.Release();
    }
    }, i);
}

WaitHandle.WaitAll(doneEvents);

Console.WriteLine("All threads done.");
Console.WriteLine();

Console.WriteLine("Press any key to exit...");
Console.ReadKey();
}
}
}
```

VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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