

parallel barcode decoding in VB.NET and ByteScout BarCode Reader SDK

Tutorial: how to do parallel barcode decoding in VB.NET

Sample source codes below will show you how to cope with a difficult task, for example, parallel barcode decoding in VB.NET. ByteScout BarCode Reader SDK was made to help with parallel barcode decoding in VB.NET. ByteScout BarCode Reader SDK is the SDK for reading of barcodes from PDF, images and live camera or video. Almost every common type like Code 39, Code 128, GS1, UPC, QR Code, Datamatrix, PDF417 and many others are supported. Supports noisy and defective images and docs. Includes optional documents splitter and merger for pdf and tiff based on found barcodess. Batch mode is supported for superior performance using multiple threads. Decoded values are easily exported to JSON, CSV, XML and to custom format.

VB.NET, code samples for VB.NET, developers help to speed up the application development and writing a code when using ByteScout BarCode Reader SDK. In order to implement this functionality, you should copy and paste code below into your app using code editor. Then compile and run your application. Use of ByteScout BarCode Reader SDK in VB.NET is also explained in the documentation included along with the product.

ByteScout BarCode Reader SDK free trial version is available for download from our website. Free trial also includes programming tutorials along with source code samples.

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Source Code Files:

Module1.vb

```
Imports Bytescout.BarCodeReader
Imports System.Threading

Module Module1

    Const InputFile As String = ".\example.pdf"

    ' Limit to 4 threads in queue.
    ' Set this value to number of your processor cores for max performance.
    Dim ThreadLimiter As Semaphore = New Semaphore(4, 4)

    <MTAThread(> Sub Main()

        Const numberOfRuns As Integer = 10
        Dim doneEvents(numberOfRuns - 1) As ManualResetEvent

        For i As Integer = 0 To numberOfRuns - 1

            ' Wait for the queue
            ThreadLimiter.WaitOne()

            doneEvents(i) = New ManualResetEvent(False)

            ThreadPool.QueueUserWorkItem(New WaitCallback(AddressOf ThreadProc), New Object() {i, doneEvents(i)})

        Next

        WaitHandle.WaitAll(doneEvents)

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

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

    End Sub

    Sub ThreadProc(ByVal stateInfo As Object)

        Dim threadIndex As Integer = stateInfo(0)
        Dim waitEvent As ManualResetEvent = stateInfo(1)

        Console.WriteLine("Thread #" & threadIndex & " started...")

        Try

            Dim reader As 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" program
' -----

' Read barcodes
Dim barcodes As FoundBarcode() = reader.ReadFrom(InputFile)

' Cleanup
reader.Dispose()

Console.WriteLine("Thread #" & threadIndex & " finished with " & barcodes.Length)

Catch ex As Exception

    Console.WriteLine("Thread #" & threadIndex & " failed with exception:\r\n" & ex.ToString())

Finally

    ' Signal the thread is finished
    waitEvent.Set()

    ' Release semaphore
    ThreadLimiter.Release()

End Try

End Sub

End Module

```

VIDEO

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

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