

parallel barcode decoding with barcode reader sdk in VB.NET and ByteScout Data Extraction Suite

parallel barcode decoding with barcode reader sdk in VB.NET

Every ByteScout tool includes sample VB.NET source codes that you can find here or in the folder with installed ByteScout product. ByteScout Data Extraction Suite was created to assist parallel barcode decoding with barcode reader sdk in VB.NET. ByteScout Data Extraction Suite is the bundle that includes three SDK tools for data extraction from PDF, scans, images and from spreadsheets: PDF Extractor SDK, Data Extraction SDK, Barcode Reader SDK.

If you want to quickly learn then these fast application programming interfaces of ByteScout Data Extraction Suite for VB.NET plus the guideline and the VB.NET code below will help you quickly learn parallel barcode decoding with barcode reader sdk. If you want to implement this functionality, you should copy and paste code below into your app using code editor. Then compile and run your application. Updated and detailed documentation and tutorials are available along with installed ByteScout Data Extraction Suite if you'd like to learn more about the topic and the details of the API.

Visit our website to get a free trial version of ByteScout Data Extraction Suite. Free trial contains many of source code samples to help you with your VB.NET project.

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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

        Catch ex As Exception
            Console.WriteLine(ex.Message)
        End Try

        waitEvent.Set()
    End Sub

End Module
```

```

' -----
' 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=NEwNs2b9YN8>

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