

Count Lines of Code

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I am open to ways to improve this application, please email me.

Visual Basic 6.0 with Service Pack 6 runtime files required.

To obtain required files (VBRun60sp6.exe):

<http://www.microsoft.com/downloads/details.aspx?FamilyId=7B9BA261-7A9C-43E7-9117-F673077FFB3C>

VBRun60sp6.exe installs Visual Basic 6.0 SP6 run-time files.

<http://support.microsoft.com/kb/290887>

This software has been tested on Windows XP through Windows 8.1.
Windows 9x, 2000 and NT4 are no longer supported.

** Warning

This application has been thoroughly tested on VB 4.0, Visual Studio 97 and Visual Studio 6.0 (C and VB)

This application WILL NOT generate valid matrix data for Visual Basic 3.0 and earlier or any .NET code.

** Overview

This program comes complete with source code. Be sure to make a reference to "Microsoft Script Runtime" (Sccrun.dll)

Be sure to read all comments within source code for additional information.

If you want a series of project files then create a file with an extension of ".lst"

Example: file name = "VB_Projects.lst"

- All files must be of the same programming language
- Each line must have a path and file name without quotes
- **Line beginning with semi-colon (";") is considered a comment**
- First blank line will indicate end of file

Example of VB project list:

; These files are to be uploaded to PSC

C:\Kens Software\CleanUp\CleanUp.vbp
C:\Kens Software\CountLOC\CountLinesOfCode.vbp
C:\Kens Software\CryptoAPI_Demo\CryptoAPI_Demo.vbg
C:\Kens Software\DefragAll\DefragAll.vbp
C:\Kens Software\DiscDataWipe\DDWipe_Group.vbg
C:\Kens Software\kiCrackPwd\kiCrackPwd.vbp
C:\Kens Software\kiCrypt\kiCrypt_Group.vbg

This application will count lines of code for both Visual Basic and C projects. It will handle VB Group projects and single files from both C and VB. In VB, a line continuation indicator of "_" at the end of a line is not counted because it is considered a continuation of the previous line. Only the first occurrence of the continuation is counted.

Options available are whether or not to include Autogenerated code, blank lines, or comments in the final total.

Items NOT counted in VB are TRAILERS. These are the logical ending statements to a procedural heading.

Example:	End Sub	End Function	End Property
	End Type	End If	Loop
	Wend	Next	

Items NOT counted in C are BRACES("{" and "}") on a line by themselves or with a trailing semicolon or comment character.

A report is created in Notepad. All modules are sorted in ascending order. The user has the options available in Notepad as to the disposition of the report.

 *** SAMPLE REPORT ***

Count Lines of Code v1.1.147 18 Oct 2010 9:03 AM

COUNTLINESOF CODE.VBP

VBP Name: C:\Kens Software\CountLOC\CountLinesOfCode.vbp

Module Name: C:\Kens Software\CountLOC\basFileFind.bas

4 Constant variables
 3 Type Structures
 7 API Declare statements
 1 Sub routines
 10 Functions
 155 Miscellaneous lines of code
 1 Auto generated lines (Not Included)
 31 Blank lines (Not Included)
 257 Comment lines (Not Included)

 180 Module lines of code

Module Name: C:\Kens Software\CountLOC\basLOC.bas

20 Constant variables
 1 Type Structures
 4 API Declare statements
 15 Sub routines
 22 Functions
 1,739 Miscellaneous lines of code
 1 Auto generated lines (Not Included)
 114 Blank lines (Not Included)
 1,006 Comment lines (Not Included)

 1,801 Module lines of code

Module Name: C:\Kens Software\CountLOC\basMain.bas

17 Constant variables
 16 API Declare statements
 7 Sub routines
 12 Functions
 279 Miscellaneous lines of code
 1 Auto generated lines (Not Included)
 84 Blank lines (Not Included)
 449 Comment lines (Not Included)

Module Name: C:\Kens Software\CountLOC\basMaia.bas

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riabl1111s11 279 Miscellaneous 111 111code

1 Auto generated lines (91()-1.16191(()-1.161915784(t)-1.1611()-1.1611(I)-1.1
 449

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Module Name: C:\Kens Software\CountLOC\basMessages.bas

```

    12 Constant variables
    1 Enum Structures
    1 Type Structures
    8 API Declare statements
    2 Sub routines
    4 Functions
   124 Miscellaneous lines of code
    1 Auto generated lines (Not Included)
    27 Blank lines (Not Included)
   227 Comment lines (Not Included)
-----
   152 Module lines of code
```

Module Name: C:\Kens Software\CountLOC\frmMain.frm

```

    2 Constant variables
   13 Sub routines
    1 Functions
   336 Miscellaneous lines of code
   385 Auto generated lines (Not Included)
    35 Blank lines (Not Included)
   109 Comment lines (Not Included)
-----
   352 Module lines of code
```

Module Name: C:\Kens Software\CountLOC\clsEdit.cls

```

    5 Constant variables
    2 Type Structures
    3 API Declare statements
   10 Sub routines
    2 Functions
   217 Miscellaneous lines of code
   15 Auto generated lines (Not Included)
   48 Blank lines (Not Included)
   321 Comment lines (Not Included)
-----
   239 Module lines of code
```

```

=====
   3,195 Total number of lines of code
```

NOTE: Visual Basic trailers are not counted. These are the
logical ending statements used by procedural headings.

```

    End Sub      End Function    End Property
    End If       End Type        Loop
    Next         Wend           End With
    End Select
```

*** END OF SAMPLE OUTPUT ***

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Information about manifest files cManifest (clsManifest)
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If Windows major version is 6 (Vista or newer)

If there is no manifest file to begin with or an incorrect one, a minor error will occur with a message box displayed. Press OK and continue. When the application has finished loading then close the application and restart it. It should load without any problems.

Description: Names of elements and attributes in a manifest file are case-sensitive. The values of elements and attributes are case-insensitive, except for the value of the type attribute.

These files have been around for a while, and the new section added for UAC control is the requestedExecutionLevel element. The most effected by UAC Control are Windows Vista and newer versions. The level attribute may be one of the following values:

Level	Description
asInvoker	Does not require elevation, runs without requesting elevation using privileges of its parent process.
highestAvailable	Requests the highest available privilege tokens of its parent process. An admin account will attempt to elevate to full administrator level, but a standard account will only request elevation to its own highest set of access tokens.
requireAdministrator	Requires elevation to full administrator privileges.

Most applications should use the "asInvoker" level, as this will not prompt the user for elevation every time it is run, and will use the standard set of privileges to access the unprotected resources it needs. Only applications that require access to protected resources should use the higher access levels.

The uiAccess attribute determines whether the application requires access to any protected UI elements, such as system dialog boxes or higher-level processes. Only signed applications may do this as it requires additional security tokens. This value defaults to false.

References: Application Manifests
[http://msdn.microsoft.com/en-us/library/aa374191\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/aa374191(v=vs.85).aspx)

Making Your Application UAC Aware
TheCodeKing, 10 Mar 2007

<http://www.codeproject.com/Articles/17968/Making-Your-Application-UAC-Aware>

Targeting your application for Windows 8.1

[http://msdn.microsoft.com/en-us/library/windows/desktop/dn481241\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/dn481241(v=vs.85).aspx)

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```

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