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Zip CRC Calculation

The Chilkat.ZipCrc (.NET), CkZipCrc (C++, Perl, Java, Ruby, Python), and ChilkatZipCrc (ActiveX) class may be used to calculate Zip CRC's from in-memory data or files. The ZipCrc class may also be used to calculate CRC's independent of zips altogether. Effectively, it's just another type of hash algorithm — the output happens to be 4 bytes (as opposed to SHA-1 which is 20 bytes, or MD5 which is 16 bytes).

This Visual Basic example demonstrates how to compare the CRC stored within a .zip with the CRC calculated from the file itself:

```
Private Sub Command15_Click()

    Dim zip As New ChilkatZip2

    Dim success As Long

    success = zip.UnlockComponent("Anything for 30-day trial")
    If (success <> 1) Then
        MsgBox zip.LastErrorText
        Exit Sub
    End If

    success = zip.NewZip("test.zip")
    If (success <> 1) Then
        MsgBox zip.LastErrorText
        Exit Sub
    End If

    success = zip.AppendOneFileOrDir("hamlet.xml", 0)
    If (success <> 1) Then
        MsgBox zip.LastErrorText
        Exit Sub
    End If

    ' Write the .zip, but don't close it because we're still going to use it...
    success = zip.WriteZip()
    If (success <> 1) Then
        MsgBox zip.LastErrorText
        Exit Sub
    End If

    ' Now we'll compare the CRC stored within the .zip for hamlet.xml against
    ' a CRC computed by reading hamlet.xml directly. First, get the zip entry object
    ' for hamlet.xml and access the Crc property:
    Dim crcFromZip As Long
    Dim entry As ChilkatZipEntry2

    Set entry = zip.GetEntryByName("hamlet.xml")
    crcFromZip = entry.Crc

    ' The ChilkatZipCrc is used for calculating CRC's from data or files
    ' The FileCrc method calculates the CRC by reading a file.
    Dim crcCalculator As New ChilkatZipCrc
    crcFromFile = crcCalculator.FileCrc("hamlet.xml")

    ' Compare the CRC's, they should be equal:
    If (crcFromFile <> crcFromZip) Then
        MsgBox "CRC's are not equal!"
    Else
        MsgBox "CRC's are equal: " & Str(crcFromFile)
    End If

End Sub
```

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Components for Microsoft Windows XP, 2000, 2003 Server, Vista, Windows 7, and Windows 95/98/NT4.