

Re: Windows CE BinaryCompression

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.app.development/2007-01/msg00060>.

- *From:* "<ctacke/>" <ctacke[[@loppennetcf.com](mailto:ctacke@loppennetcf.com)]>
 - *Date:* Sat, 13 Jan 2007 18:22:24 -0500
-

You are going about this the completely wrong way. That's not what the function is for, and explaining how to get your data into some format that would be compatible in all cases would be long and counterproductive. Get a valid compression library or write something simple like RLE. You should not be P/Invoking for something like this.

--
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--

"Wagner Bertolini Junior" <wagnerbertolini@xxxxxxxxxxxxxxxxxxxx> wrote in message news:B5B8025E-5128-4C25-A038-DECE2F86E711@xxxxxxxxxxxxxxxxxxxx

I am just trying to compress a file.

Why, it doesn't work?

I saw someone using it.. but he was using C++ to do it.
But i think that is the same usage.

About the Word Aligned, means that the address of my pointer must be aligned?
Now i get in trouble... I don't know if i can do that over .NetCF but i need
to do a research....

"<ctacke/>" wrote:

WORD aligned means it falls on a WORD divisible address (address % 2 == 0).
DWORD aligned means it falls on a DWORD divisible address (address %4 ==

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0)

What exactly are you trying to do here anyway? I seriously doubt that you should be using this undocumented kernel API from an app, let alone a managed app.

--
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"Wagner Bertolini Junior" <wagnerbertolini@xxxxxxxxxxxxxxxxxxxx> wrote in message news:uYcWqroNHHA.5016@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Can anyone help me with this?

I found at winCe sources this function:

```
//-----  
// Compressors – bufin and bufout must be WORD aligned,  
lenout must be  
at  
least as  
// large as lenin, CECOMPRESS_FAILED is returned if it  
doesn't fit,  
else  
compressed length  
// CECOMPRESS_ALL_ZEROS returned if buffer entirely  
zero. If bufout is  
NULL, the output  
// length is computed, but the results are not stored. Lenin  
must be a  
multiple of 2.  
//-----
```

```
DWORD  
NKBinaryCompress(  
LPBYTE bufin,  
DWORD lenin,  
LPBYTE bufout,  
DWORD lenout  
)  
{
```

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```
DWORD retval;

TRUSTED_API (L"NKBinaryCompress",
CECOMPRESS_FAILED);

DEBUGMSG(ZONE_ENTRY, (L"NKBinaryCompress
entry: %8.8lx %8.8lx %8.8lx
%8.8lx\r\n", bufin, lenin, bufout, lenout));

retval = CECcompress(bufin, lenin, bufout, lenout, 1, 1024);

DEBUGMSG(ZONE_ENTRY, (L"NKBinaryCompress exit:
%8.8lx\r\n",
retval));

return retval;
}
```

But i CAN'T understand the comment, what is WORD aligned?

i'm trying to use it and i'm receiving an Error.. i will post the sample code:

```
//DWORD BinaryCompress(LPBYTE bufin, DWORD lenin,
LPBYTE bufout, DWORD
lenout);
//DWORD BinaryDecompress(LPBYTE bufin, DWORD
lenin, LPBYTE bufout,
DWORD
lenout, DWORD skip);
[DllImport("coredll.dll", SetLastError=true)]
public static extern unsafe int BinaryCompress(byte*
bufferIn, int
lenIn,
byte* bufferOut, ref int lenOut);
[DllImport("coredll.dll", SetLastError = true)]
public static extern unsafe int BinaryDecompress(byte*
bufferIn, int
lenIn, byte* bufferOut, ref int lenOut, int skip);
string fileOpen = "\\Temp\\test.bmp";
byte[] bFile;
bFile = OpenFile(fileOpen);
byte[] bufferNew = new byte[bFile.Length];
int iLen = 0;
int ret = 0;
fixed(byte* bLP = bFile)
fixed (byte* bLPNew = bufferNew)
{
ret = BinaryCompress(bLP, (int)bFile.Length, bLPNew, ref
```

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```
iLen);  
if (ret != 0)  
{  
ret = Marshal.GetLastWin32Error();  
MessageBox.Show(new Win32Exception(ret).Message); //  
this always return 87 / Win32Exception  
}  
}
```

```
if anyone wants to see the OpenFile  
private static byte[] OpenFile(string fileOpen)  
{  
byte[] bFile;  
FileStream fs = File.OpenRead(fileOpen);  
bFile = new byte[fs.Length];  
byte[] bAux = new byte[1024];  
int bytToRead = (int)fs.Length;  
int count = 0;  
int idx = 0;  
while (bytToRead > 0)  
{  
count = fs.Read(bAux, 0, bAux.Length);  
idx = (int)fs.Length - bytToRead;  
for (int i = 0; i < count; i++)  
bFile[idx+i] = bAux[i];  
bytToRead -= count;  
}  
fs.Close();  
return bFile;  
}
```

The file length is 307254 bytes.

Any idea??

Thanks a lot.