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Subject: ZLIB\_UNCOMPRESS limited to 4GB?  
Posted by [markb77](#) on Mon, 12 Jan 2015 20:03:16 GMT  
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hi,

I am trying to access data that is stored in a zlib compressed format in a set of existing files. The data size in some of the files is > 4GB.

For the smaller files, I can use ZLIB\_UNCOMPRESS to access the data successfully. However, when I try ZLIB\_UNCOMPRESS on the larger datasets, IDL crashes hard (the program just closes).

I've tested ZLIB\_COMPRESS with large datasets, and this throws an error when the input data is > 4GB.

So, are both of these routines limited to 4GB data? If so, why?

IDL Version 8.3, Microsoft Windows (Win32 x86\_64 m64). (c) 2013, Exelis Visual Information Solutions, Inc.

My machine has 32GB of RAM... and I have also tested this on IDL 8.4

Any ideas on how to decompress this data in IDL?

thanks  
Mark

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Subject: Re: ZLIB\_UNCOMPRESS limited to 4GB?  
Posted by [markb77](#) on Wed, 25 Mar 2015 14:20:42 GMT  
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hi,

The 4GB limit is inherent to the ZLIB compress() and uncompress() routines. Instead, in order to access data this large I would need to use ZLIB inflate().

Does anyone have IDL code or a DLM which uses ZLIB inflate() ?

thanks  
Mark

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Subject: Re: ZLIB\_UNCOMPRESS limited to 4GB?  
Posted by [Heinz Stege](#) on Wed, 25 Mar 2015 16:52:04 GMT  
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On Wed, 25 Mar 2015 07:20:42 -0700 (PDT), superchromix wrote:

> The 4GB limit is inherent to the ZLIB compress() and uncompress() routines. Instead, in order to access data this large I would need to use ZLIB inflate().

>

> Does anyone have IDL code or a DLM which uses ZLIB inflate() ?

>

I don't know, if this helps: 7z from <http://www.7-zip.org/> has a command line version that can be used together with IDLs spawn procedure. The 7z extract command can extract files from a zip-file greater than 4 GB.

I did a test with a 0.7 GB file in a 6.6 GB zip file on my Windows PC.

Cheers, Heinz

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Subject: Re: ZLIB\_UNCOMPRESS limited to 4GB?  
Posted by [markb77](#) on Thu, 26 Mar 2015 12:07:39 GMT  
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Thanks, but unfortunately this is not a ZIP file - it is compressed data stored within another file format.

Mark

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