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Subject: FileMapping::Create is broken on Windows [BUG]

Posted by [benoitc](#) on Fri, 06 Jul 2007 22:17:46 GMT

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Hello,

I'm using the latest 705-dev3, and FileMapping::Create seems to be broken for at least two reasons.

- line 1255: `hmap = CreateFileMapping(hfile, NULL, PAGE_READWRITE, 0, 0, NULL);`

That API failed and return 0 because it should not be called with a null size.

- line 1290 : `rawbase = (byte *)MapViewOfFile(hmap, /*write ? FILE_MAP_WRITE*/ : FILE_MAP_READ,`

For some reason, the write flag is commented, which prevent any write access to the file.

After fixing these two bugs, the API seems to work fine.

Regards,

Benoit

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Subject: Re: FileMapping::Create is broken on Windows

Posted by [mirek](#) on Mon, 09 Jul 2007 07:27:27 GMT

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I bet the fix is trivial, but to be sure, can you post the patch please?

Mirek

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Subject: Re: FileMapping::Create is broken on Windows

Posted by [benoitc](#) on Mon, 09 Jul 2007 08:33:59 GMT

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No problem, here are the modification I did:

- line 1255: Replace 0 by `maplen`

`hmap = CreateFileMapping(hfile, NULL, PAGE_READWRITE, 0, maplen, NULL);`

- line 1290 : remove the comments

`rawbase = (byte *)MapViewOfFile(hmap, write ? FILE_MAP_WRITE : FILE_MAP_READ,`

I'm still wondering why it has that comment, it was probably done for a good reason, do you know why it was added?

Regards,  
Benoit

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Subject: Re: FileMapping::Create is broken on Windows  
Posted by [rylek](#) on Tue, 10 Jul 2007 06:50:03 GMT  
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Hello!

According to UVS archive, both changes are due to me, I'm ready to take the blame. Just for one of them, though; I believe that CreateFileMapping with 0, 0 is OK; according to MSDN,

Quote:

`dwMaximumSizeLow`

[in] The low-order DWORD of the maximum size of the file mapping object.

If this parameter and `dwMaximumSizeHigh` are 0 (zero), the maximum size of the file mapping object is equal to the current size of the file that `hFile` identifies.

I'm afraid the commented `FILE_MAP_WRITE` was a temporary hack I tried during some debugging session and I forgot to undo it, I'm sorry for that. I didn't notice afterwards because to this day I've been using FileMapping for read-only file access.

Looking at it, there's another bug you didn't mention: the `Expand` method is implemented for Posix only, its Win32 implementation is omitted. If you have already fixed it and tested it successfully, please post your patch, I'm reluctant to make patches I cannot directly test in real life situations; but if you don't have the patch, I'll fix it somehow.

Regards

Tomas

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Subject: Re: FileMapping::Create is broken on Windows  
Posted by [benoitc](#) on Tue, 10 Jul 2007 09:17:31 GMT  
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Hi Tomas,

MSDN is correct, but the point is that for a `Create` the file size is not known when you call `CreateFile` and `CreateFileMapping` whereas in the `Open` case you know it after `CreateFile` so during the `CreateFileMapping` you do not need to give it.

I didn't use `Expand` yet, that's why I didn't notice it was not implemented. So sorry, I don't have

patch for it.

Regards,  
Benoit

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Subject: FileMapping::Create is broken on Windows [BUG]  
Posted by [benoitc](#) on Thu, 11 Oct 2007 08:01:08 GMT  
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Hi,

The bug is still there on 710-dev1. Do you want me to apply the patch? In that case, I guess I need access to your uvs tool?

Regards,  
Benoit

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