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

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

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

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 read life situations; but if you don't have the patch, I'll fix it somehow.

Regards

Tomas

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 why I didn't notice it was not implemented. So sorry, I don't have

patch for it.

Regards,
Benoit

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
