
Subject: Re: AVI reader/writer dll available
Posted by [R.Bauer](#) on Mon, 11 Mar 2002 07:45:21 GMT
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ronn kling wrote:

>
> Hello All,
>
> I hope everyone had a great weekend.
>
> Back in December Oleg Kornilov posted a call_external routine that read and
> created AVI movies. With his permission we have turned it into a dll for
> IDL on windows for IDL 5.3, 5.4 and 5.5. You can download the zip file with
> the dll, dlm, two test procedures and a help file at.
>
> <http://www.kilvarock.com/freesoftware/dlms/avi.htm>
>
> Andrew Cool also sent me a nice little routine that accesses news feeds from
> IDL. You can get this at.
>
> <http://www.kilvarock.com/freesoftware/misc/misc.htm>
>
> I hope everyone finds them useful. As usual, if you have any comments please
> don't hesitate to email me.
>
> -Ronn

Dear Ronn,

are there any restrictions of the avi dlms for linux?
I am interested in this too.

regards
Reimar

--
Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)
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a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html
=====

Subject: Re: AVI reader/writer dll available
Posted by [Rick Towler](#) on Mon, 11 Mar 2002 18:59:57 GMT
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> Dear Ronn,
>
> are there any restrictions of the avi dlms for linux?
> I am interested in this too.
>
> regards
> Reimar
>
> --
> Reimar Bauer

Reimar,

I am not Ronn and I haven't seen the code for this but I vaguely remember the original post by Olev. I believe that he calls a standard windows AVI .dll to create these files (hence the windows only nature of this .dll). In order to port this to Linux you would have to get the API for an AVI codec available for Linux and make the changes to the source for the IDL .dll. I suspect that it would be trivial once you found the codec.

-Rick

Subject: Re: AVI reader/writer dll available
Posted by [R.Bauer](#) on Mon, 11 Mar 2002 20:43:35 GMT
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Rick Towler wrote:

>
>> Dear Ronn,
>>
>> are there any restrictions of the avi dlms for linux?
>> I am interested in this too.
>>
>> regards
>> Reimar
>>
>> --
>> Reimar Bauer
>
> Reimar,
>
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> the original post by Olev. I believe that he calls a standard windows AVI

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> order to port this to Linux you would have to get the API for an AVI codec
> available for Linux and make the changes to the source for the IDL .dll. I
> suspect that it would be trivial once you found the codec.
>
> -Rick

Dear Rick,

I got already a mail by Ronn and your informations are helpful too.
If the AVI dll is using a standard windows dll
it is not possible to change this code running on linux.
But as I remember right there is a GPL licenced AVI Player
and Source in my linux distribution.
I will have a look on this if I got stuck I will ask you all again.

regards
Reimar

--

Reimar Bauer

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a IDL library at ForschungsZentrum Juelich
[http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html)
=====

Subject: Re: AVI reader/writer dll available
Posted by [Rick Towler](#) on Mon, 11 Mar 2002 22:22:50 GMT
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> I got already a mail by Ronn and your informations are helpful too.
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> But as I remember right there is a GPL licenced AVI Player
> and Source in my linux distribution.
> I will have a look on this if I got stuck I will ask you all again.
>
> regards
> Reimar
>

No, you can not just recompile the dlm c code on linux. But if you get a

hold of the source, it should be trivial to change the calls to the windows codec (.dll) to ones appropriate for linux.

The AVI player you mentioned may only contain an avi decoder and you'll need the encoder routines. Take a look at <http://avifile.sourceforge.net/> I didn't read any of the details but it looks like an active project implementing different codecs on x86 linux. There are probably many others. Search www.freshmeat.net.

Since AVI is more of a file format than a codec, you'll have to choose what codec you want to use. This isn't clear cut but I recommend the latest intel indeo encoder you can get your hands on. Either v4 or v5 will do. As for visual quality they are about the same but v5 is faster (at least on win32). Steer clear of Cinepack, MSCV (Microsoft Video 1) and motion JPEG if at all possible. They produce lower quality video with lower rates of compression.

Thinking about it, you should really check out the openDivX MPEG4 codec (<http://www.projectmayo.com>). It is open source and there are win32 and linux x86 versions. MPEG4 is an extremely good codec for video and my guess is that it could be tuned well for sci animations. The only downside is that widespread distribution of your DivX encoded video depends on the viewer installing the divX codec (but this is the case with ANY decent codec). I just looked at the source and there is at least adequate documentation of the API.

good luck!

-Rick

Subject: Re: AVI reader/writer dll available
Posted by [Rick Towler](#) on Thu, 14 Mar 2002 06:36:54 GMT
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"Rick Towler" <rtowler@u.washington.edu> wrote in message
news:[a6jart\\$2uko\\$1@nntp6.u.washington.edu](mailto:a6jart$2uko$1@nntp6.u.washington.edu)...

>
>> I got already a mail by Ronn and your informations are helpful too.
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> No, you can not just recompile the dlm c code on linux. But if you get a
> hold of the source, it should be trivial to change the calls to the
windows
> codec (.dll) to ones appropriate for linux.
>

Upon further investigation, it seems like this isn't as trivial as I first thought but still should be possible. I was really hoping to find a cross platform solution but that might be wishing for too much.

Take a look at avifile (<http://avifile.sourceforge.net>). It should provide a similar interface as the video for windows AVI* functions which are used in the win32 version of IDLtoAVI. What is neat about it is that it uses win32 codecs (so linux users have access to a wide range of codecs) but this limits it to x86 linux. The documentation is thin but there are a few examples that aren't bad.

-Rick
