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Subject: MPEG

Posted by [dean](#) on Tue, 15 Nov 1994 07:08:12 GMT

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> This is also of interest to me. I understand the points about creating GIF  
> files and converting them to PPM. What do you use then to convert it to  
> MPEG? If I had the name, I could probably find it with xarchie.

I used IDL to write out my images as GIF. Then I used the PBMplus util  
GIFtoPPM to make a PPM file.

The UNIX program I used is MPEG\_ENCODE on a SUN workstation. Another  
person gave me the EXE and he couldn't remember the FTP site. I located  
CMPEG10 and DMPEG10 with ARCHIE. They are DOS programs that will take a  
PPM or Targa file and make a MPEG animation sequence. The UNIX program,  
MPEG\_ENCODE takes a series of PPM files and converts them to MPEG. I  
found CMPEG easier to use, but it only handle small files. MPEG\_ENCODE  
handles larger files, but very difficult to use. I was lucky to find  
someone that toyed with MPEG\_ENCODE before.

Kelly Dean  
CSU/CIRA

P.S. Additional information about MPEG can be found from the USER GROUP  
COMP.GRAPHICS.....

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Subject: Re: MPEG

Posted by [cboyd](#) on Sat, 19 Nov 1994 01:30:08 GMT

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In article <3a9mos\$tfb@yuma.ACNS.ColoState.EDU>, dean@phobos.cira.colostate.edu writes:

|>  
|> >This is also of interest to me. I understand the points about creating GIF  
|> >files and converting them to PPM. What do you use then to convert it to  
|> >MPEG? If I had the name, I could probably find it with xarchie.  
|>  
|> I used IDL to write out my images as GIF. Then I used the PBMplus util  
|> GIFtoPPM to make a PPM file.  
|>  
Hi! Can anybody reading this data help me understand how to read band interleavddata with idl. I  
want to examine satellite images in this format. Thank You.

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Subject: Re: MPEG

Posted by [David Fanning](#) on Sat, 23 Mar 2002 17:02:16 GMT

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Ron Koiles (rkoiles1@attbi.com) writes:

- > I have a canon power shot s10 camera. It takes pictures and I can see
- > that the format they are in is .jpg.
- >
- > In order to make a CD that will play on my DVD player (and TV Screen)
- > I need to get the jpg extension to a mpeg extension.
- >
- > How in the world is that done??

I presume you want to make an MPEG movie out of a sequence of JPEG images. Is this correct? There is a (fairly dated) article on how to create MPEG movies on my web page:

[http://www.dfanning.com/tips/how\\_mpeg.html](http://www.dfanning.com/tips/how_mpeg.html)

The example uses a 3D data set and creates it's own 24-image from each frame of the data. You won't have to go to this trouble, since each of your JPEG images is probably 24-bit already. You will add your JPEG images to the MPEG object (using MPEG\_Put) directly.

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438, E-mail: [david@dfanning.com](mailto:david@dfanning.com)

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: mpeg

Posted by [David Fanning](#) on Thu, 26 Sep 2002 15:25:59 GMT

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Reimar Bauer (R.Bauer@fz-juelich.de) writes:

- > Is it possible by objects to read in mpeg files ?

Not with IDL-supplied objects. :-)

Cheers,

David

--

David W. Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Phone: 970-221-0438, E-mail: david@dfanning.com  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
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Subject: Re: mpeg  
Posted by [David Fanning](#) on Thu, 22 May 2003 16:35:40 GMT  
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David Chevrier (David.Chevrier@noaa.gov) writes:

> hi - i know its possible to create mpegs using 5.6, but how about  
> reading them in. i'm trying to do something like open an mpeg and  
> take a jpeg snapshot of that mpeg at certain time intervals... say one  
> jpeg per second of mpeg. any idea if this can be done in idl?

Oh, I'm sure it *can* be done in IDL. But if your question is really "Is it worth my time to do it in IDL?", then I think the answer is "No". (The answer is probably "Hell no", but I'm trying to clean up my act a little bit.)

Get yourself a good MPEG player that can stop the movie where you want it and a good screen shot utility. There are lots for free or for little money on the web. You will be a LOT happier. :-)

Cheers,

David

--

David W. Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
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Subject: Re: mpeg  
Posted by [Rick Towler](#) on Thu, 22 May 2003 18:44:13 GMT  
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"David Chevrier" wrote in message...

> hi - i know its possible to create mpegs using 5.6, but how about  
> reading them in. i'm trying to do something like open an mpeg and  
> take a jpeg snapshot of that mpeg at certain time intervals... say one

> jpeg per second of mpeg. any idea if this can be done in idl?

Take a look at Ronn Kling's IDL2AVI .dlm available on his website [www.kilvarock.com](http://www.kilvarock.com). It is a windows only dlm which provides an interface to the video for windows API. You can read and write MPEG files if they have been encoded in the AVI file format. I know at least one person has had a problem with IDL2AVI and winXP but this never was resolved on the list so I don't know where it stands. I have been meaning to try it myself on XP but just haven't had the time.

If you are encoding these files yourself and they are scientific animations then you may want to consider a codec better suited for the task such as the ligos Indeo Video 5 codec or the Sorenson codec which ships with QuickTime pro.

If you take David's advice, some of the best MPEG players you can get for the PC are the DVD players that often come bundled with your PC. PowerDVD or WinDVD. I just don't know if they play MPEG-1 encoded files.

-Rick

---

Subject: Re: mpeg

Posted by [Mark Hadfield](#) on Thu, 22 May 2003 21:44:19 GMT

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"David Fanning" <david@dfanning.com> wrote in message  
news:MPG.1936aa46109cd14a989bad@news.frii.com...

> David Chevrier (David.Chevrier@noaa.gov) writes:

>

>> hi - i know its possible to create mpegs using 5.6, but how about

>> reading them in. i'm trying to do something like open an mpeg and

>> take a jpeg snapshot of that mpeg at certain time intervals... say one

>> jpeg per second of mpeg. any idea if this can be done in idl?

>

> Oh, I'm sure it *can* be done in IDL. But if your question

> is really "Is it worth my time to do it in IDL?", then I think

> the answer is "No". (The answer is probably "Hell no", but I'm

> trying to clean up my act a little bit.)

I agree entirely. (That you need to clean up your act.)

> Get yourself a good MPEG player that can stop the movie

> where you want it and a good screen shot utility. There

> are lots for free or for little money on the web. You

> will be a LOT happier. :-)

For this sort of thing, I tend to favour ImageMagick, which is a cross-platform suite of largely command-line tools. It supports what it calls "delegates" for formats that it doesn't understand natively and last time I looked it bundled simple MPEG endoder and decoder delegates.

<http://www.imagemagick.org/>

--

Mark Hadfield "Ka puwaha te tai nei, Hoesa tatou"  
m.hadfield@niwa.co.nz  
National Institute for Water and Atmospheric Research (NIWA)

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Subject: Re: mpeg  
Posted by [David Fanning](#) on Fri, 23 May 2003 00:52:27 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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Mark Hadfield (m.hadfield@niwa.co.nz) writes:

> I agree entirely. (That you need to clean up your act.)

It was that penis joke that was really over the top,  
wasn't it? :-(

I just couldn't help myself. I was reading that description  
of his computer and I was getting a ... well, never mind.

Cheers,

David

P.S. Let's just say when you get to be my age you take your  
fun where you can get it. :-)

--

David W. Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Phone: 970-221-0438, E-mail: [david@dfanning.com](mailto:david@dfanning.com)  
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Subject: Mpeg-1(2) reading  
Posted by [oleg.kornilov](#) on Fri, 20 Jun 2003 14:30:45 GMT  
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> Take a look at Ronn Kling's IDL2AVI .dln available on his website  
> www.kilvarock.com. It is a windows only dlm which provides an interface to  
> the video for windows API. You can read and write MPEG files if they have  
> been encoded in the AVI file format.

Although IDL2AVI routine can't read MPEG-1(2) or QT directly, you can  
use free 'frame server' Avisynth

(<http://www.math.berkeley.edu/~benrg/avisynth.html>)

that allow reading MPEG or QT from programs that can read just AVI.

You can also download this from RSI user-contributed library -> Data  
readers and writers -> avi.zip at

(<http://www.rsinc.com/codebank/search.asp?FID=139>)

For writing Mpeg-1(2) with IDL2AVI you can use DVMPEG (I think even  
demo) from

(<http://www.darvision.com>). After installation it appends mpeg-1(2)  
codek to multimedia subsystem, so you can create mpeg like AVI.

Oleg

---

Subject: Re: Mpeg-1(2) reading

Posted by [Haje Korth](#) on Fri, 20 Jun 2003 15:57:35 GMT

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I don't understand where the problem with MPEG is? IDL can write MPEG and  
the license for it is free. Just give RSI a call. This is what we did and we  
received our license addition promptly.

Haje

"Oleg Kornilov" <[oleg.kornilov@mail.ru](mailto:oleg.kornilov@mail.ru)> wrote in message  
news:9cc22753.0306200630.46c73ba8@posting.google.com...

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>> www.kilvarock.com. It is a windows only dlm which provides an interface  
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> codec to multimedia subsystem, so you can create mpeg like AVI.  
> Oleg

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Subject: Re: Mpeg-1(2) reading  
Posted by [Rick Towler](#) on Fri, 20 Jun 2003 18:05:19 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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"Haje Korth" wrote in message...

> I don't understand where the problem with MPEG is? IDL can write MPEG  
> and the license for it is free. Just give RSI a call. This is what  
> we did and we received our license addition promptly.

I had mentioned that IDL2AVI can read/write MPEG files. This isn't entirely true and Oleg was correcting my statement. You can read/write MPEG-4 files using only IDL2AVI but not MPEG-1 or 2.

-Rick

> "Oleg Kornilov" wrote in message...  
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>> Oleg  
>  
>

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Subject: Re: Mpeg-1(2) reading  
Posted by [Haje Korth](#) on Fri, 20 Jun 2003 19:02:08 GMT  
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Rick,

It seems this message had been ripped from the original thread, so the context was not clear to me. As you know I recompiled your AVI2IDL for IDL 5.6 and managed to produce MPEG-4 (DIVX) files with it. I just hate the box that pops up to chose the codec. But I am not a good enough c-programmer to change this. :-)

The problem with MPEG-1 (included in IDL) is that the quality is rather poor for scientific presentations, so I really like your solution!

Haje

"Rick Towler" <[rtowler@u.washington.edu](mailto:rtowler@u.washington.edu)> wrote in message  
news:bcvidj\$1v8m\$1@nntp6.u.washington.edu...

>

> "Haje Korth" wrote in message...

>

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> -Rick

>

>

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>>> Oleg  
>>  
>>  
>  
>

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Subject: Re: Mpeg-1(2) reading  
Posted by [Rick Towler](#) on Fri, 20 Jun 2003 19:47:42 GMT  
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"Haje Korth" wrote in message...

> It seems this message had been ripped from the original thread,  
> so the context was not clear to me.

Hi Haje. Yes it was a little disconnected. I just remembered the post so I knew where Oleg was coming from.

> As you know I recompiled your AVI2IDL for IDL 5.6 and managed to  
> produce MPEG-4 (DIVX) files with it. I just hate the box that pops  
> up to chose the codec. But I am not a good enough c-programmer to  
> change this. :-)  
>  
> The problem with MPEG-1 (included in IDL) is that the quality is  
> rather poor for scientific presentations, so I really like your  
> solution!

I like it too! But credit goes to Oleg and Ronn. Oleg did the original coding and Ronn rolled it into a DLM.

I have had success with the divX encoder too. I had a short animated line plot which ranged from 3-5MB using the Indeo and Cinepack encoders and was only 600k with superior quality using the divX encoder. Not too bad.

-Rick

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