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Subject: idl flythru

Posted by [prahladvkumar](#) on Wed, 16 May 2007 08:43:27 GMT

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Dear All,

I am planning for a 3dflythru using IDL.

I am having satellite data and the corresponding DEM.

Now, I want to overlay the data on the DEM and have a 3Dflythru.

The controls are to be made using keyboard instead of mouse.

Please do the needful.

Cheers,

Prahlad V

---

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Subject: Re: idl flythru

Posted by [David Fanning](#) on Thu, 17 May 2007 03:22:12 GMT

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prahladvkumar@gmail.com writes:

> I had seen this but i dont think that program will work for Keyboard  
> operations. My intension is to use up arrow, down arrow, left and  
> right arrow for direction change instead of mouse. Please help me.

You are going to have to set the draw widget up to return keyboard events, rather than button events. Then just respond appropriately in your event handler to the different kinds of events.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: idl flythru

Posted by [prahladvkumar](#) on Fri, 18 May 2007 04:34:55 GMT

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On May 17, 8:22 am, David Fanning <n...@dfanning.com> wrote:

> prahladvku...@gmail.com writes:  
>> I had seen this but i dont think that program will work for Keyboard  
>> operations. My intension is to use up arrow, down arrow, left and  
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> Cheers,  
>  
> David  
> --  
> David Fanning, Ph.D.  
> Fanning Software Consulting, Inc.  
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>  
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

David,  
Can u give small example in this regard

Cheers,  
Prahlad V

---

---

Subject: Re: idl flythru  
Posted by [David Fanning](#) on Fri, 18 May 2007 05:09:36 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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prahladvkumar@gmail.com writes:

> Can u give small example in this regard

Well, sure.

```
.*****  
,  
PRO Test_Draw_Events, event
```

```
IF event.press NE 1 THEN RETURN
```

```
CASE event.key OF
```

```
5: Print, 'Left Arrow Key'  
6: Print, 'Right Arrow Key'  
7: Print, 'Up Arrow Key'  
8: Print, 'Down Arrow Key'
```

```
ELSE:
```

```
ENDCASE
```

END

PRO test

```
tlb = Widget_Base()
draw = Widget_Draw(tlb, xsize=200, ysize=200, $
  /Keyboard_Events, Event_Pro='Test_Draw_Events')
Widget_Control, tlb, /Realize
XManager, 'test', tlb, /No_Block
Widget_Control, draw, /Input_Focus
```

END

```
.*****
;
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

---

Subject: Re: idl flythru

Posted by [Rick Towler](#) on Mon, 21 May 2007 21:28:36 GMT

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Sorry to come in late on this, I was on holiday...

Don't listen to David on this one. Unless they have upgraded this demo, d\_flythru.pro is a horrid "flythru" application (apologies to the author.) Maybe I am a bad pilot, but I couldn't fly using that interface to save my life.

O.K. Maybe my code is horrid too, but to have a natural interface to any flythru you'll need a camera system to transform your surface accordingly and my code is at least a start:

<http://www.acoustics.washington.edu/~towler/RHTgrCamera.html>

There is a full blown flythru demo included in the RHTgrCamera package, camdemo\_cullnfly.pro. If you're on win32, consider the directInput version of this program found here:

<http://www.acoustics.washington.edu/~towler/directInputDLM.html>

WIDGET\_DRAW now handles mouse wheel events which was the big advantage of my directInput DLM but I still find it is smoother overall.

-Rick

prahladvkumar@gmail.com wrote:

- > Dear All,
- >
- > I am planning for a 3dflythru using IDL.
- > I am having satellite data and the corresponding DEM.
- > Now, I want to overlay the data on the DEM and have a 3Dflythru.
- > The controls are to be made using keyboard instead of mouse.
- >
- > Please do the needful.
- >
- > Cheers,
- > Prahlad V
- >

---

Subject: Re: idl flythru

Posted by [prahladvkumar](#) on Tue, 22 May 2007 07:59:39 GMT

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On May 22, 2:28 am, Rick Towler <[rick.towler@nomail.noaa.gov](mailto:rick.towler@nomail.noaa.gov)> wrote:

- > Sorry to come in late on this, I was on holiday...
- >
- > Don't listen to David on this one. Unless they have upgraded this demo,
- > d\_flythru.pro is a horrid "flythru" application (apologies to the
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- > of my directInput DLM but I still find it is smoother overall.
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- > -Rick
- >

>  
>  
> prahladvku...@gmail.com wrote:  
>> Dear All,  
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>> Now, I want to overlay the data on the DEM and have a 3Dflythru.  
>> The controls are to be made using keyboard instead of mouse.  
>  
>> Please do the needful.  
>  
>> Cheers,  
>> PrahladV- Hide quoted text -  
>  
> - Show quoted text -

Dear Rick,

Thanks for the support u had given to me. I am very new to IDL. Can u just guide me how to use these programs for my application.

I am having Ikonos data and DEM of the same. I want to have flythru and control the path using keyboard controls.

Please do the needful.

Cheers,  
Prahlad V

---

Subject: Re: idl flythru  
Posted by [Rick Towler](#) on Wed, 23 May 2007 16:26:31 GMT  
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---

> Thanks for the support u had given to me. I am very new to IDL. Can u  
> just guide me how to use these programs for my application.

Unfortunately I can't. Too busy right now...

First, just try to get the cull-n-fly program to run. Download and unzip everything into a single directory. This includes the .dlm and .dll files as well. Set this directory as your working directory (I do this by checking "Change Directory on Open" on the general preferences tab then opening the program I wish to run). Then run the program.

If it doesn't run, look closely at the errors. Most likely you'll be either missing procedures or you'll have a path problem.

> I am having Ikonos data and DEM of the same. I want to have flythru  
> and control the path using keyboard controls.

You should be able to do this (relatively) easily.

At line 501 (in camdemo\_di\_cullnfly.pro, will be slightly different in the non-direct input version) you'll see the comment:

```
; Create something to look at...
```

All of the code from this point down to line 577 creates what you see when the application runs. You'll replace that with an IDLgrSurface object representing your DEM. You'll need to study the code a bit, specifically how things are added to the camera (view) and lighting.

Since your new to IDL, take baby steps. Before you write a fly-thru application, make sure you can simply create the IDLgrSurface model and display it. Use XOBJVIEW to display it. XOBJVIEW requires that your surface be placed in a model before display:

```
oSurface = OBJ_NEW('IDLgrSurface', demdata)  
oModel = OBJ_NEW('IDLgrModel')  
oModel -> Add, oSurface
```

```
XOBJVIEW, oModel, /BLOCK
```

```
OBJ_DESTROY, oModel
```

Once you can display the surface, then concentrate on adding it to the cullnfly application.

Start slowly. Make small changes and observe their effect. And work thru it step by step. And READ THE IDL DOCS. You can learn a lot!

-Rick

---

Subject: Re: idl flythru  
Posted by [prahladvkumar](#) on Tue, 29 May 2007 11:00:30 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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On May 23, 9:26 pm, Rick Towler <[rick.tow...@nomail.noaa.gov](mailto:rick.tow...@nomail.noaa.gov)> wrote:  
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> tab then opening the program I wish to run). Then run the program.  
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> XOBJVIEW, oModel, /BLOCK  
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> Once you can display the surface, then concentrate on adding it to the  
> cullnfly application.  
>  
> Start slowly. Make small changes and observe their effect. And work  
> thru it step by step. And READ THEIDLDOCS. You can learn a lot!  
>  
> -Rick

Thank you very much rick.

You had done a gr8 help to me. Now i am not getting any errors but while running the program i am getting memory error.

Please do the needful

Regards,  
Prahlad V

---

---

Subject: Re: idl flythru

Posted by [prahladvkumar](#) on Tue, 05 Jun 2007 04:35:30 GMT

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On May 23, 9:26 pm, Rick Towler <[rick.tow...@nomail.noaa.gov](mailto:rick.tow...@nomail.noaa.gov)> wrote:

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>  
> -Rick

Dear Rick,

I tried to run the "camdemo\_di\_cullnfly.pro" program i am facing some  
problem at "diID = di\_InitInterface()". Please do the needful.

Regards,  
Prahlaad V

---

Subject: Re: idl flythru  
Posted by [prahladvkumar](#) on Tue, 05 Jun 2007 07:06:54 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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On May 23, 9:26 pm, Rick Towler <[rick.towler@noaa.gov](mailto:rick.towler@noaa.gov)> wrote:  
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>  
> Start slowly. Make small changes and observe their effect. And work  
> thru it step by step. And READ THE IDL DOCS. You can learn a lot!  
>  
> -Rick

Rick,  
the error i am facing is "instruction at 0x7c157976 referenced memory  
at 0x00000000" the memory could not be "read".  
The system is getting crashed and that too at "diID =  
di\_InitInterface()"

please do the needful.

Regards,  
Prahla V

---

Subject: Re: idl flythru  
Posted by [prahladvkumar](#) on Tue, 05 Jun 2007 08:14:05 GMT

On May 23, 9:26 pm, Rick Towler <rick.tow...@nomail.noaa.gov> wrote:

>> Thanks for the support u had given to me. I am very new to IDL. Can u  
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>

> Start slowly. Make small changes and observe their effect. And work

> thru it step by step. And READ THE IDL DOCS. You can learn a lot!  
>  
> -Rick

Dear Rick,

I think there is some problem with the .dll or .dlm file can you please send them.

Prahlad V

---

Subject: Re: idl flythru  
Posted by [Rick Towler](#) on Tue, 05 Jun 2007 18:39:41 GMT  
[View Forum Message](#) <> [Reply to Message](#)

> Dear Rick,  
>  
> I tried to run the "camdemo\_di\_cullnfly.pro" program i am facing some  
> problem at "diID = di\_InitInterface()". Please do the needful.

What OS?  
What version of IDL?

As I mentioned, the directInput dlm is windows only. Either you aren't running IDL on windows or you will need to recompile the directInput dlm for your OS+IDL combination.

I suggest trying the non-directInput version of this program. I posted the link in a prior email.

-Rick

---

Subject: Re: idl flythru  
Posted by [prahladvkumar](#) on Wed, 06 Jun 2007 04:28:33 GMT  
[View Forum Message](#) <> [Reply to Message](#)

On Jun 5, 11:39 pm, Rick Towler <[rick.tow...@nomail.noaa.gov](mailto:rick.tow...@nomail.noaa.gov)> wrote:  
>> Dear Rick,  
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> for your OS+IDL combination.  
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> I suggest trying the non-directInput version of this program. I posted  
> the link in a prior email.  
>  
> -Rick

Dear Rick,

I tried to load the .dlm through command line of idl even then i am  
getting the same error message.

My operating system is WindowsXP and version of IDL is 6.3.

Please suggest me a solution, I will be very thankful to u.

Cheers,  
PrahlaD V

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