
Subject: How can I show error line numbers when running .sav on Virtual Machine
Posted by [timothyja123](#) on Tue, 22 Oct 2013 02:51:12 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi guys,

My application has the following code to catch as display errors:

```
CATCH, errorNum
IF (errorNum NE 0) THEN BEGIN
  CATCH, /Cancel
  HELP, /Last_Message, Output = lastError
  v = DIALOG_MESSAGE(LastError)
  Error = LastError[0]
  RETURN
ENDIF
```

The application is built into a .sav file and run on the IDL Virtual Machine. My problem is that when an error is hit there are no line numbers in the error message. Is there some way to build the .sav file to retain and display the line numbers like when running directly from the source in the Workbench?

Tim

IDL version 8.2.3

Subject: Re: How can I show error line numbers when running .sav on Virtual Machine

Posted by [Michael Galloy](#) on Tue, 22 Oct 2013 03:22:36 GMT

[View Forum Message](#) <> [Reply to Message](#)

<timothyja123@gmail.com> wrote:

```
> Hi guys,
>
> My application has the following code to catch as display errors:
>
> CATCH, errorNum
> IF (errorNum NE 0) THEN BEGIN
>   CATCH, /Cancel
>   HELP, /Last_Message, Output = lastError
>   v = DIALOG_MESSAGE(LastError)
>   Error = LastError[0]
>   RETURN
> ENDIF
>
>
```

> The application is built into a .sav file and run on the IDL Virtual
> Machine. My problem is that when an error is hit there are no line
> numbers in the error message. Is there some way to build the .sav file to
> retain and display the line numbers like when running directly from the
> source in the Workbench?
>
> Tim
>
> IDL version 8.2.3

I'm not near a computer, but how about the TRACEBACK keyword to HELP?

Mike

--

www.michaelgalloy.com
Research Mathematician
Tech-X Corporation

Subject: Re: How can I show error line numbers when running .sav on Virtual
Machine

Posted by [David Fanning](#) on Tue, 22 Oct 2013 03:36:56 GMT

[View Forum Message](#) <> [Reply to Message](#)

timothyja123@gmail.com writes:

> The application is built into a .sav file and run on the IDL Virtual Machine. My problem is that
> when an error is hit there are no line numbers in the error message. Is there some way to build
> the .sav file to retain and display the line numbers like when running directly from the source in the
> Workbench?

There are no line numbers in a save file, it is a binary file. If you
are running directly from source, there is no save file. So... Not sure
what you are asking for here.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: How can I show error line numbers when running .sav on Virtual Machine

Posted by [timothyja123](#) on Tue, 22 Oct 2013 04:56:52 GMT

[View Forum Message](#) <> [Reply to Message](#)

> There are no line numbers in a save file, it is a binary file. If you
>
> are running directly from source, there is no save file. So... Not sure
>
> what you are asking for here.

Huh? I thought I was pretty clear with my question. "Is there some way to build the .sav file to retain and display the line numbers"

Most languages allow you to compile code into binary form and retain extra debug information. Especially those run on a VM as the code is not actually converted to a machine code its just bytecode (I'm assuming this is how IDL works also). For example Java always retains line numbers.

Subject: Re: How can I show error line numbers when running .sav on Virtual Machine

Posted by [timothyja123](#) on Tue, 22 Oct 2013 05:11:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

> There are no line numbers in a save file, it is a binary file. If you
>
> are running directly from source, there is no save file. So... Not sure
>
> what you are asking for here.

After re-reading your post I think I understand what you are trying to say. Yes a sav file obviously has no line numbers. My question was about retaining the line numbers from the original source code definition used to create the .sav file. As per the explanation on my previous reply.

Subject: Re: How can I show error line numbers when running .sav on Virtual Machine

Posted by [Moritz Fischer](#) on Tue, 22 Oct 2013 05:20:37 GMT

[View Forum Message](#) <> [Reply to Message](#)

Indeed, you can get the line number with the statement
`(SCOPE_TRACEBACK(/STRUCT)).line[-1]`

The problem is, in your case, where to put it (in the catch block doesn't make sense). Maybe you could write a wrapper routine for error handling, and thus preserve the line number?

Am 22.10.2013 05:22, schrieb Michael Galloy:

> <timothyja123@gmail.com> wrote:
>> Hi guys,
>>
>> My application has the following code to catch as display errors:
>>
>> CATCH, errorNum
>> IF (errorNum NE 0) THEN BEGIN
>> CATCH, /Cancel
>> HELP, /Last_Message, Output = lastError
>> v = DIALOG_MESSAGE(lastError)
>> Error = LastError[0]
>> RETURN
>> ENDIF
>>
>>
>> The application is built into a .sav file and run on the IDL Virtual
>> Machine. My problem is that when an error is hit there are no line
>> numbers in the error message. Is there some way to build the .sav file to
>> retain and display the line numbers like when running directly from the
>> source in the Workbench?
>>
>> Tim
>>
>> IDL version 8.2.3
>
> I'm not near a computer, but how about the TRACEBACK keyword to HELP?
>
> Mike
>
