
Subject: Re: Opening a .isv file
Posted by [codepod](#) on Fri, 13 Oct 2006 15:45:14 GMT
[View Forum Message](#) <> [Reply to Message](#)

Actually, an ISV file is just a save file that contains a portion of the iTools data/vis hierarchy. So you can just use restore.

CP

Kenneth Bowman wrote:

- > The ability to save the iTools state in a .isv file is extremely useful.
- >
- > To open a .isv file, however, one must start an iTool, then use the File...Open
- > menu item interactively to navigate to the .isv file to open it.
- >
- > Is there a simple command-line way to do this, such as
- >
- > `isv_open, filename`
- >
- > where filename is the path to the file?
- >
- > Ken Bowman

Subject: Re: Opening a .isv file
Posted by [K. Bowman](#) on Fri, 13 Oct 2006 18:22:22 GMT
[View Forum Message](#) <> [Reply to Message](#)

In article <1160754314.429990.182420@h48g2000cwc.googlegroups.com>, codepod@gmail.com wrote:

- > Actually, an ISV file is just a save file that contains a portion of
- > the iTools data/vis hierarchy. So you can just use restore.
- >
- > CP

I tried that, and RESTORE restores some data, but it does not open an iTool window and display the visualization.

After a little thought I realized that one it is possible to control the iTool interface programmatically to execute the Open operation, so here is a simple program to do that.

To use,

```
IDL> isv_open_kpb, isvfile
```

where isvfile is the name of the .isv file.

I make no guarantees, as my object-oriented programming is severely limited, but this seems to work.

Plus, it *has* to be good luck to offer this up on Friday the 13th.

Cheers, Ken Bowman

```
PRO ISV_OPEN_KPB, isvfile, $
  ITOOL_ID = itool_id, $
  VERBOSE = verbose

;+
;NAME:
;  ISV_OPEN_KPB
;PURPOSE:
;  Open an iTool visualization saved as an ISV file.
;CATEGORY:
;  Graphics and display.
;CALLING SEQUENCE:
;  ISV_OPEN_KPB, isvfile
;INPUT:
;  isvfile : String containing name of ISV file to open.
;KEYWORDS:
;  ITOOL_ID : On return this keyword contains the iTool ID of the newly created iTool.
;  VERBOSE : If set, print verbose informational messages.
;OUTPUT:
;  Opens iTool window and displays the saved visualization.
;MODIFICATION HISTORY:
;  Kenneth P. Bowman, 2006-10-13.
;-

COMPILE_OPT IDL2                                ;Set compiler options

IF (N_PARAMS() EQ 0) THEN begin
  MESSAGE, 'You must provide the name of an ISV file.', /CONTINUE    ;Error - no filename
provided
  RETURN
ENDIF

file = FILE_SEARCH(isvfile, COUNT = nfiles)                ;Check that file exists
IF (nfiles EQ 0) THEN BEGIN
  MESSAGE, 'File "' + isvfile + '" not found.', /CONTINUE          ;Error - file does not exist
  RETURN
ENDIF
```

```

iPlot, IDENTIFIER = itool_id, /DISABLE_SPLASH_SCREEN           ;Create new iTool
temp = itGetCurrent(TOOL = itool_obj)                         ;Get iTool object reference

open_op_id = itool_obj -> FindIdentifiers('*OPEN*', /OPERATIONS) ;Get Open operator
identifier
open_op_obj = itool_obj -> GetByIdentifier(open_op_id)         ;Get Open operator object
reference
open_op_obj -> SetProperty, SHOW_EXECUTION_UI = 0, $          ;Turn off Open operator
user interface
      FILENAME          = isvfile                             ;Set ISV input file name
rc          = itool_obj -> DoAction(open_op_id)                ;Open ISV file

IF KEYWORD_SET(verbose) THEN PRINT, 'ISV file read from ', isvfile ;Completion message

END

```

Subject: Re: Opening a .isv file
 Posted by [Michael Galloy](#) on Fri, 13 Oct 2006 18:24:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

Kenneth Bowman wrote:

- > The ability to save the iTools state in a .isv file is extremely useful.
- >
- > To open a .isv file, however, one must start an iTool, then use the File...Open
- > menu item interactively to navigate to the .isv file to open it.
- >
- > Is there a simple command-line way to do this, such as
- >
- > isv_open, filename
- >
- > where filename is the path to the file?

What do you want to happen then, though? For the appropriate iTool to start up and load that data set?

Mike

--

www.michaelgalloy.com

Subject: Re: Opening a .isv file
 Posted by [K. Bowman](#) on Fri, 13 Oct 2006 20:46:52 GMT
[View Forum Message](#) <> [Reply to Message](#)

In article <1160763899.346746.133620@b28g2000cwb.googlegroups.com>,

"mgalloy@gmail.com" <mgalloy@gmail.com> wrote:

> Kenneth Bowman wrote:
>> The ability to save the iTools state in a .isv file is extremely useful.
>>
>> To open a .isv file, however, one must start an iTool, then use the File...Open
>> menu item interactively to navigate to the .isv file to open it.
>>
>> Is there a simple command-line way to do this, such as
>>
>> isv_open, filename
>>
>> where filename is the path to the file?
>
> What do you want to happen then, though? For the appropriate iTool to
> start up and load that data set?

I think I have already solved this (see my follow-up posting), but you raise an interesting question. Is there such thing as an appropriate iTool? Do I need to know which iTool to use to open an ISV file? Can't I open an ISV file with **any** iTool? Aren't all iTools really the same thing underneath? (Since I can add an image to a volume, or a line to surface, etc.)

Ken

Subject: Re: Opening a .isv file
Posted by [Michael Galloy](#) on Fri, 13 Oct 2006 21:44:34 GMT
[View Forum Message](#) <> [Reply to Message](#)

Kenneth Bowman wrote:
> In article <1160763899.346746.133620@b28g2000cwb.googlegroups.com>,
> "mgalloy@gmail.com" <mgalloy@gmail.com> wrote:
>
>> Kenneth Bowman wrote:
>>> The ability to save the iTools state in a .isv file is extremely useful.
>>>
>>> To open a .isv file, however, one must start an iTool, then use the File...Open
>>> menu item interactively to navigate to the .isv file to open it.
>>>
>>> Is there a simple command-line way to do this, such as
>>>
>>> isv_open, filename
>>>
>>> where filename is the path to the file?
>>
>> What do you want to happen then, though? For the appropriate iTool to
>> start up and load that data set?

>
> I think I have already solved this (see my follow-up posting), but you raise
> an interesting question. Is there such thing as an appropriate iTool? Do
> I need to know which iTool to use to open an ISV file? Can't I open
> an ISV file with *any* iTool? Aren't all iTools really the same thing
> underneath? (Since I can add an image to a volume, or a line to surface, etc.)

Yes, they all morph into what is necessary to view the displayed data.
In your solution, it just says "iPlot" in the window titlebar, but the
tool can handle other types of data.

Mike

--

www.michaelgalloy.com
