Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by David Fanning on Sun, 10 Oct 2010 00:48:17 GMT

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Reno writes:

- > I'm trying to use Unix tools, in IDL Workbench, e.g. use ImageMagick
- > via David's PS_START and PS_END. It turns out that the SPAWN does not
- > recognise the tools, like,

>

- > IDL> SPAWN, 'convert -version'
- > bash: convert: command not found

>

- > I installed the ImageMagick through MacPorts and it's in /opt/local/
- > bin, but I don't think the location doesn't really matter since the
- > tools are properly set its path. When I run the same code in IDL in
- > terminal environment, it is just perfect with not problem what so
- > ever.

>

> When I give full path of ImageMagick, it works fine.

I don't know how to solve this problem. Sorry, but I don't have a Mac.

But since you mention ImageMagick I just wanted to say that Friday, after several weeks of producing more than 50 book figures, I suddenly realized that I don't miss lousy direct graphics fonts any more at all!

I use a version of PS_Start to create the book figures. I call PS_Start, paste the code from the book into the IDL command line, and then use PS_End to make a PDF file. Then I just import the PDF file into the book as a figure.

Not only do I know that the code is typo free, but this method produces absolutely perfect output with PostScript or True-Type fonts, whatever I want. The figures print great, and look spectacular in a PDF version of the book. I really couldn't be happier.

I could probably live without IDL. But I'm pretty sure I couldn't live without ImageMagick. :-)

Cheers.

David

--

David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by Reno on Sun, 10 Oct 2010 20:37:14 GMT View Forum Message <> Reply to Message

Hi David,

- > I don't know how to solve this problem. Sorry, but
- > I don't have a Mac.

I presume that it may be OSX specific problem, and other platform doesn't have such issue.

> ...

- > Not only do I know that the code is typo free, but
- > this method produces absolutely perfect output with
- > PostScript or True-Type fonts, whatever I want. The
- > figures print great, and look spectacular in a PDF
- > version of the book. I really couldn't be happier.

>

- > I could probably live without IDL. But I'm pretty
- > sure I couldn't live without ImageMagick. :-)

This is exactily what I would like to achieve. I have excellent results with the same method in terminal environment (with help of ImageMagick), and I hope to do it in Workbench as well to make my life easier.

I seems that I should contact ITTVIS guys for the help. Meanwhile, it'd be grateful if any Mac users are experiencing the same problem as mine.

Cheers, Reno

Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by penteado on Sun, 10 Oct 2010 21:12:40 GMT

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On Oct 9, 6:30 pm, fov <renoc...@gmail.com> wrote:

- > It implies that the whatever terminal environment operating through
- > IDL Workbench is not the same as the one running in real terminal.

Do you get the same if you start the Workbench from the command line (idlde) or from some icon/menu?

Maybe PATH is being set to include ImageMagick's directory in a .cshrc file? The error above indicates that IDL is spawning bash.

Anyway, you could spawn 'echo \$PATH', to find out how it differs from the PATH in your terminal, it might give clues to where the difference originates.

Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by Reno on Mon, 11 Oct 2010 00:56:18 GMT

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Hi Paulo,

- > Do you get the same if you start the Workbench from the command line
- > (idlde) or from some icon/menu?

Haven't I thought of it!? Running IDLDE from terminal, opposed to clicking the IDLWorkbench.app, did make differences - Now, I can successfully collaborate with ImageMagick.

- Maybe PATH is being set to include ImageMagick's directory in a .cshrc
- > file? The error above indicates that IDL is spawning bash.

>

- > Anyway, you could spawn 'echo \$PATH', to find out how it differs from
- > the PATH in your terminal, it might give clues to where the difference
- > originates.

I'm afraid that I do not have .cshrc in ~/. However, "SPAWN, 'echo \$PATH'" yields very different PATH. Though I can see the differences, I'm still in search of Bash profile file when IDLWorkbench.app is activating, nor I cannot "SPAWN, 'setenv PATH=***" which gives 'Command not found...'

For the time being I shall have to run the IDLDE from terminal. Thanks for the tip.

Cheers, Reno Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by wlandsman on Mon, 11 Oct 2010 01:35:44 GMT

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On Oct 9, 8:48 pm, David Fanning <n...@dfanning.com> wrote:

- > But since you mention ImageMagick I just wanted to say
- > that Friday, after several weeks of producing more than
- > 50 book figures, I suddenly realized that I don't miss
- > lousy direct graphics fonts any more at all!

>

- > I use a version of PS_Start to create the book
- > figures. I call PS Start, paste the code from the
- > book into the IDL command line, and then use PS_End
- > to make a PDF file. Then I just import the PDF
- > file into the book as a figure.

>

Hmmm, I can't grok these paragraphs. The versions of PS_START and PS_END on your website are for direct graphics and use direct graphics fonts. PS_END does not have an option to create a PDF file. Are you saying that you have versions of PS_START and PS_END for use with the new (V8.0) graphics? --Wayne

Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by David Fanning on Mon, 11 Oct 2010 02:15:23 GMT View Forum Message <> Reply to Message

wlandsman writes:

- > Hmmm, I can't grok these paragraphs. The versions of PS_START and
- > PS_END on your website are for direct graphics and use direct graphics
- > fonts. PS_END does not have an option to create a PDF file. Are
- > you saying that you have versions of PS START and PS END for use with
- > the new (V8.0) graphics?

No, no. I'm not interested in new graphics. (Well, maybe I will be when they actually work.) I am talking *strictly* direct graphics here.

I have absolutely given up my quest for decent fonts in IDL *old* direct graphics because I don't need them any more!

All of the graphics routines I write work on the display and in the PostScript device in identical ways. (Teaching people how to do this has been my religious practice for nearly 20 years now.) Thus, to get a graphical output in *any* format I desire, my code looks like this. I show you PDF output, but I often use PNG, JPEG, or TIFF, depending on what I'm doing and where I want to view the output. Just set the appropriate keyword. ImageMagick does the conversion from PostScript to any of these other formats.

```
IDL> PS_Start
IDL> My_Graphic_Program
IDL> PS_End, /PDF
```

It honestly is that dead simple once you have ImageMagick installed. I'm making PDF files that I import into Framemaker. All my book graphics are of this type. Every graphic I produce has beautiful PostScript or True-Type fonts.

It's wonderful! :-)

Cheers,

David

--

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

Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by David Fanning on Mon, 11 Oct 2010 02:21:46 GMT View Forum Message <> Reply to Message

David Fanning writes:

- > Thus, to get a graphical output in *any* format I desire,
- > my code looks like this. I show you PDF output, but I
- > often use PNG, JPEG, or TIFF, depending on what I'm
- > doing and where I want to view the output. Just set
- > the appropriate keyword. ImageMagick does the conversion
- > from PostScript to any of these other formats.

>

- > IDL> PS Start
- > IDL> My_Graphic_Program
- > IDL> PS_End, /PDF

Oh, hang on! After a millisecond after I hit that damn Send button I thought I should just check on this! :-(

You are right. No PDF files. I've been creating PNG files and importing those at high resolution (600 dpi).

Sorry for the confusion. I don't usually get this excited. ;-)

Cheers,

David

P.S. Let's just say I completely forgot how I was doing this, since it is so easy to do!

--

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Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by penteado on Mon, 11 Oct 2010 03:57:56 GMT View Forum Message <> Reply to Message

On Oct 10, 9:56 pm, fov <renoc...@gmail.com> wrote:

- > I'm afraid that I do not have .cshrc in ~/. However, "SPAWN, 'echo
- > \$PATH" yields very different PATH. Though I can see the differences,
- > I'm still in search of Bash profile file when IDLWorkbench.app is
- > activating, nor I cannot "SPAWN, 'setenv PATH=***'" which gives
- > 'Command not found...'

setenv is a csh command, that is why it does not work there (spawn is calling a bash). It seems to me that you could just add a line setting your PATH on your .bashrc file. Something like

export PATH=/opt/local/bin/:\$PATH

Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by penteado on Mon, 11 Oct 2010 03:59:29 GMT View Forum Message <> Reply to Message

On Oct 10, 11:21 pm, David Fanning <n...@dfanning.com> wrote: > David Fanning writes: >> Thus, to get a graphical output in *any* format I desire, >> my code looks like this. I show you PDF output, but I >> often use PNG, JPEG, or TIFF, depending on what I'm >> doing and where I want to view the output. Just set >> the appropriate keyword. ImageMagick does the conversion >> from PostScript to any of these other formats. IDL> PS Start >> >> IDL> My_Graphic_Program IDL> PS End, /PDF >> > > Oh, hang on! After a millisecond after I hit that > damn Send button I thought I should just check on > this! :-(> You are right. No PDF files. I've been creating PNG > files and importing those at high resolution (600 dpi).

I was wondering what magic was making ImageMagick create vector PDFs.

Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by wlandsman on Mon, 11 Oct 2010 12:31:59 GMT

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On Oct 10, 10:21 pm, David Fanning <n...@dfanning.com> wrote:

- > Oh, hang on! After a millisecond after I hit that
- > damn Send button I thought I should just check on
- > this! :-(

>

- > You are right. No PDF files. I've been creating PNG
- > files and importing those at high resolution (600 dpi).

Right. I've also been happy using PS_END,/PNG to import figures into my LaTeX files.

I'm not sure that it is fair to say that you are no longer using direct graphics fonts, though. ImageMagick is presumably trying to faithfully reproduce the fonts created in your IDL direct graphics postscript file. --Wayne

Subject: Re: Set path of terminal tools, e.g. ImageMagick, in Workbench Posted by David Fanning on Mon, 11 Oct 2010 12:44:29 GMT

wlandsman writes:

- > I'm not sure that it is fair to say that you are no longer using
- > direct graphics fonts, though. ImageMagick is presumably trying to
- > faithfully reproduce the fonts created in your IDL direct graphics
- > postscript file

Right. And because of the way PS_Start works, these are always either PostScript or True-Type fonts. But never Hershey fonts, which I am happy to use on the display for "previewing" images before I create them for their final purpose.

Cheers,

David

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