
Subject: Re: plotting free form ascii data
Posted by [david\[2\]](#) on Mon, 02 Jul 2001 21:36:51 GMT
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patrick@es.ucsc.edu writes:

>
> I'm attempting to write a gui script to plot free form ascii data.
> I've utilized the `ascii_template` and `read_ascii` functions but the
> program hangs after hitting finished on the `ascii_template` gui and
> returns an error:
>
> % READ_ASCII: File name must be a string.
> % Execution halted at: READ_ASCII 792
> /auto/soft/idl/idl_5.4/lib/read_ascii.pro
> % PLOTINTERACTIVE_READ 31
> /home/swifs/training/idlinterm/interplot2.pro
> % XMANAGER_EVLOOP_STANDARD 478
> /auto/soft/idl/idl_5.4/lib/xmanager.pro
> % XMANAGER 708
> /auto/soft/idl/idl_5.4/lib/xmanager.pro
> % PLOTINTERACTIVE 209
> /home/swifs/training/idlinterm/interplot2.pro
> % \$MAIN\$
>
> I'm using a variable name `xdata`, very simple and yes, a string. What
> gives?
>
> Also, I'm curious as to the best way to pass this to the PLOT
> function?

Oh, dear. "`xdata`" is a curious name for a data file.
Can you show us the commands you are using, please. :-)

Cheers,

David

--

David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
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Subject: Re: plotting free form ascii data
Posted by [patrick](#) on Tue, 03 Jul 2001 22:58:29 GMT

sorry for the brevity on the last post. What I have currently is:

```
pro plotinteractive_doplot, pstate
plot, (*pstate).profile_data, LINESTYLE = (*pstate).linestyle
end
```

```
pro plotinteractive_read, event
widget_control, event.top, GET_UVALUE = pstate
; read in the data for the 1-D plot from a free-form ascii
; matrix.
```

```
profile_data = read_ascii(test,
template=ascii_template(test,BROWSE_LINES=4241), $
    DATA_START=13)
```

```
; call the wavelet toolkit:
plotinteractive_wvtoolkit, pstate
```

```
end
```

```
;pro plotinteractive_draw, event
```

```
;widget_control, event.top, GET_UVALUE = pstate
; check for motion events.
;if (event.type eq 2) then begin
; convert the coordinates from device to data
; datac = convert_coord(event.x, event.y, /DEVICE, /TO_DATA)
; statusstr = strtrim(datac[0], 2) + ',' + strtrim(datac[1],2)
; widget_control, (*pstate).status, SET_VALUE = statusstr
;endif
```

```
;end
```

```
pro plotinteractive_quit, event
widget_control, event.top, GET_UVALUE = pstate
; kill the widget.
ptr_free, pstate
widget_control, event.top, /DESTROY
```

```
end
```

```
pro plotinteractive_wvtoolkit, event
;widget_control, event.top, GET_UVALUE = pState
WV_APPLET, ARRAY=profile_data, GROUP_LEADER=winID
```

```
; call the do routine to replot.
plotinteractive_doplot, pstate
```

end

--the program proceeds until it gets to pro plotinteractive_wvtoolkit
then stops. Giving the error:

% XMANAGER: Caught unexpected error from client application. Message
follows...

% Attempt to call undefined procedure/function: 'WV_APPLET'.

% Execution halted at: PLOTINTERACTIVE_WVTOOLKIT 42

/home/swifs/training/idlinterm/interplot4.pro

% PLOTINTERACTIVE_READ 14

/home/swifs/training/idlinterm/interplot4.pro

% XMANAGER_EVLOOP_STANDARD 478

/auto/soft/idl/idl_5.4/lib/xmanager.pro

% XMANAGER 708

/auto/soft/idl/idl_5.4/lib/xmanager.pro

% PLOTINTERACTIVE 101

/home/swifs/training/idlinterm/interplot4.pro

% \$MAIN\$

What is the correct way to call wv_applet?

Regards,

Patrick

Subject: Re: plotting free form ascii data

Posted by [Craig Markwardt](#) on Wed, 04 Jul 2001 02:06:24 GMT

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patrick@es.ucsc.edu (Patrick McEnaney) writes:

>

> What is the correct way to call wv_applet?

Umm, with it in your path?

Seriously, have you checked that your path is correct? Can you
.compile WV_APPLET? Can you call it from the command line? If yes to
all these questions then there is something more fundamentally wrong,
but my guess is that you need to be sure the little "+" is on the
front of the IDL library directory.

Craig

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu

Subject: Re: plotting free form ascii data

Posted by [david\[2\]](#) on Wed, 04 Jul 2001 03:25:32 GMT

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Patrick writes:

```
> sorry for the brevity on the last post. What I have currently is:
> pro plotinteractive_doplot, pstate
> plot, (*pstate).profile_data, LINESTYLE = (*pstate).linestyle
> end
>
> pro plotinteractive_read, event
> widget_control, event.top, GET_UVALUE = pstate
> ; read in the data for the 1-D plot from a free-form ascii
> ; matrix.
>
> profile_data = read_ascii(test,
> template=ascii_template(test,BROWSE_LINES=4241), $
>   DATA_START=13)
>
> ; call the wavelet toolkit:
> plotinteractive_wvtoolkit, pstate
>
> end
>
> ;pro plotinteractive_draw, event
>
> ;widget_control, event.top, GET_UVALUE = pstate
> ; check for motion events.
> ;if (event.type eq 2) then begin
> ; convert the coordinates from device to data
> ; datac = convert_coord(event.x, event.y, /DEVICE, /TO_DATA)
> ; statusstr = strtrim(datac[0], 2) + ',' + strtrim(datac[1],2)
> ; widget_control, (*pstate).status, SET_VALUE = statusstr
> ;endif
>
> ;end
>
>
> pro plotinteractive_quit, event
> widget_control, event.top, GET_UVALUE = pstate
> ; kill the widget.
> ptr_free, pstate
> widget_control, event.top, /DESTROY
```

```

>
> end
>
> pro plotinteractive_wvtoolkit, event
> ;widget_control, event.top, GET_UVALUE = pState
> WV_APPLET, ARRAY=profile_data, GROUP_LEADER=winID
>
> ; call the do routine to replot.
> plotinteractive_doplot, pstate
>
> end
>
> --the program proceeds until it gets to pro plotinteractive_wvtoolkit
> then stops. Giving the error:
> % XMANAGER: Caught unexpected error from client application. Message
> follows...
> % Attempt to call undefined procedure/function: 'WV_APPLET'.
> % Execution halted at: PLOTINTERACTIVE_WVTOOLKIT 42
> /home/swifs/training/idlinterm/interplot4.pro
> %          PLOTINTERACTIVE_READ 14
> /home/swifs/training/idlinterm/interplot4.pro
> %          XMANAGER_EVLOOP_STANDARD 478
> /auto/soft/idl/idl_5.4/lib/xmanager.pro
> %          XMANAGER 708
> /auto/soft/idl/idl_5.4/lib/xmanager.pro
> %          PLOTINTERACTIVE 101
> /home/swifs/training/idlinterm/interplot4.pro
> %          $MAIN$
>
> What is the correct way to call wv_applet?

```

I don't know how WV_APPLET should be called.
I've never heard of it. Is this an IDL program in
your path?

But I thought the original problem was that
READ_ASCII didn't like the filename. I can well
believe this, since in the example:

```

> profile_data = read_ascii(test, $
> template=ascii_template(test,BROWSE_LINES=4241), $
> DATA_START=13)

```

the variable "test" is nowhere defined in this
procedure. This should be the name of a data file,
for example:

```
test = 'mydata.dat'
```

I'd be saving up for a good book on widget programming, too. I'm not sure the example you are following is going to get you too far. :-)

Cheers,

David

--

David Fanning, Ph.D.

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