Subject: Re: Undefined Variable: DC_Write_Fixed/DC_Write_Free - PV WAVE
Posted by Heinz Stege on Wed, 28 Mar 2012 11:54:44 GMT
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Hi Erini,

it seems, that there are no other PV-Wave users in this group. I myself switched to IDL 5 years ago. :-) Before that I used PV-Wave for a long time. So I will try to help. See below.

On Tue, 27 Mar 2012 10:43:40 -0700 (PDT), Erini Lambrides wrote:

> I get this error message:
>
> % Internal error: Attempt to store into Temp variable with dynamic
> allocation..
> % Execution halted at COMPARE_TARGET_OFFSET2 <C:\wave_bin\pvpro
> \elam_pro/compare_target_offset2.pro(80)> (DC_WRITE_FREE).
> % Called from $MAIN$.
>
> Right after the loop finishes its first iteration. This is the code:
>
>
> loop4:
> artar=fltarr(nfiles)
> axc=fltarr(nfiles)
> ayc=fltarr(nfiles)
>
> for i=0, nfiles-1 do begin
>
> spherecenter,aimg(*,*,1),rtar,xc,yc,1,1
> artar(i)=rtar
> axc(i)=xc
> ayc(i)=yc
>
> status= DC_WRITE_FREE('C:\Cryo\SphereCenterData
> \referencetargetdata.txt',fnames(i),artar(i),/Column, $
> Dt_Template=[1], Format="(A10, 1X, F4.2)")
>
> endfor
>
> fnames(i): String=Array(5)
> artar(i):Float=Array(5)

The error message from PV-Wave is not very helpful for me. So I played around a little with DC_WRITE_FREE. The following is working without errors. All tests with PV-WAVE Version 7.51 (i386nt Windows-NT 80x86):

```
 filename='Testfile_'+string(indgen(20),form='(i2.2)')+'.tmp'
a='a'+strtrim(sindgen(10),2)
b=findgen(10)
info,dc_write_free(filename(0),a,b,/column)
info,dc_write_free(filename(1),a,b(0),/column)
a0=a(0)
info,dc_write_free(filename(2),a0,b,/column)
info,dc_write_free(filename(3),[a(0)],b,/column)
```

But the following statement does not work. It throws the same error message as your code:

```
info,dc_write_free(filename(4),a(0),b,/column)
```

I don't really know why. As the error message says, it is an "Internal error". Does PV-Wave need to temporary write something into the parameter? The command with b(0) was working. DC_WRITE_FREE seems to make a difference between a scalar _string_ expression and a scalar _floating point_ expression.

What is your intend with the Dt_Template=[1] keyword? As I understand the manual, it has to be used in combination with date/time data represented in the !DT structure format. Another question: Why don't you use PRINTF instead of DC_WRITE_FREE? I myself always felt happy with PRINTF (and WRITEU).

Cheers, Heinz
