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Subject: Undefined Variable: DC\_Write\_Fixed/DC\_Write\_Free - PV WAVE

Posted by [Erini Lambrides](#) on Thu, 22 Mar 2012 20:30:21 GMT

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Hello all, I am getting this error message when i attempt to .run my procedure compare\_target\_offset2

Compiled module: COMPARE\_TARGET\_OFFSET2.

% Compiled module: \$MAIN\$.

% DC\_WRITE\_FREE: Variable is undefined.

and the same for DC\_WRITE\_FIXED, when I try to write my data in a variable to a .txt file. These two functions should be in the pv wave library - I have version 9.00.

here is how I use it within the code:

```
status= DC_WRITE_FREE('C:\Cryo\SphereCenterData
\referencetargetdata.txt',rtar)
```

I apologize now if it's a silly mistake. Thanks!

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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

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Subject: Re: Undefined Variable: DC\_Write\_Fixed/DC\_Write\_Free - PV WAVE  
Posted by [Erini Lambrides](#) on Tue, 03 Apr 2012 18:12:29 GMT

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On Mar 28, 7:54 am, Heinz Stege <public.215....@arcor.de> wrote:

```
> HiErini,
>
> 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.
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>
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>
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> On Tue, 27 Mar 2012 10:43:40 -0700 (PDT),EriniLambrideswrote:
>> I get this error message:
>
>> % Internal error: Attempt to store into Temp variable with dynamic
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>> % 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)
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> around a little with DC_WRITE_FREE. The following is working without
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> a0=a(0)
> info,dc_write_free(filename(2),a0,b,/column)
> info,dc_write_free(filename(3),[a(0)],b,/column)
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> 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)
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> 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.
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> 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

```

Your suggestions worked perfectly! And I will continue to use Printf from now on - I too now prefer this. I used the dc\_functions simply because that was suggested. It is my own fault for not trying my own way first! Thank you very much!

-Erini Lambrides