
Subject: Re: Need help with HDF_VD_WRITE!!!
Posted by [Brian Huether](#) on Fri, 11 Oct 2002 11:10:08 GMT
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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=Content-Type content="text/html; charset=iso-8859-1">
<META content="MSHTML 6.00.2800.1106" name=GENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY>
<DIV><FONT face=Arial size=2>I thought I had it. But man this is so complicated.
Say I have one column of data with one field. All the following
fail:</FONT></DIV>
<DIV><FONT face=Arial size=2></FONT>&nbsp;</DIV>
<DIV><FONT face=Arial size=2>IDL&gt;
fileid=HDF_OPEN('e:\huether\test7.hdf',/CREATE)</FONT></DIV >
<DIV><FONT face=Arial size=2>IDL&gt; Vdat = HDF_VD_ATTACH(fileID, -1,
/WRITE)</FONT></DIV>
<DIV><FONT face=Arial size=2>IDL&gt; HDF_VD_WRITE, Vdat, 'PX', indgen(1,10)
</FONT></DIV>
<DIV><FONT face=Arial size=2></FONT>&nbsp;</DIV>
<DIV><FONT face=Arial size=2>and also</FONT></DIV>
<DIV><FONT face=Arial size=2></FONT>&nbsp;</DIV><FONT size=1>
<DIV><FONT face=Arial size=2>IDL&gt;
fileid=HDF_OPEN('e:\huether\test8.hdf',/CREATE)</FONT></DIV >
<DIV><FONT face=Arial size=2>IDL&gt; Vdat = HDF_VD_ATTACH(fileID, -1,
/WRITE)</FONT></DIV>
<DIV><FONT face=Arial size=2>IDL&gt; HDF_VD_FDEFINE,
Vdat,'SS',/FLOAT</FONT></DIV>
<DIV><FONT face=Arial size=2>IDL&gt; HDF_VD_WRITE, Vdat, 'SS',
findgen(1,10)</FONT> </DIV>
<DIV><FONT face=Arial size=2></FONT>&nbsp;</DIV>
<DIV><FONT face=Arial size=2>In each case the error is</FONT></DIV>
<DIV><FONT face=Arial size=2></FONT>&nbsp;</DIV>
<DIV><FONT face=Arial size=2>% HDF_VD_WRITE: Data array dimensioning mismatch
(&lt;FLOAT Array[1, 10]&gt;).</FONT></DIV>
<DIV><FONT face=Arial size=2></FONT>&nbsp;</DIV>
<DIV><FONT face=Arial size=2>This is so annoying. Consider this:</FONT></DIV>
<DIV><FONT face=Arial size=2></FONT>&nbsp;</DIV><FONT size=1>
<DIV><FONT face=Arial size=2>IDL&gt;
fileid=HDF_OPEN('e:\huether\test10.hdf',/CREATE)</FONT></DIV >
<DIV><FONT face=Arial size=2>IDL&gt; Vdat = HDF_VD_ATTACH(fileID, -1,
/WRITE)</FONT></DIV>
<DIV><FONT face=Arial size=2>IDL&gt; HDF_VD_WRITE, Vdat, 'SS', indgen(10)</FONT>
</DIV>
<DIV><FONT face=Arial size=2></FONT>&nbsp;</DIV>
<DIV><FONT face=Arial size=2>This causes the error</FONT></DIV>
```

<DIV> </DIV>

<DIV>HDF_VD_WRITE: Unable to set the VDATA fieldnames to <STRING ('SS')></DIV>

<DIV> </DIV>

<DIV>But consider this:</DIV>

<DIV> </DIV>

<DIV>IDL>

fileid=HDF_OPEN('e:\huether\test11.hdf',/CREATE)</DIV >

<DIV>IDL> Vdat = HDF_VD_ATTACH(fileID, -1, /WRITE)</DIV></DIV>

<DIV>IDL> HDF_VD_WRITE, Vdat, 'PX', indgen(10)</DIV>

<DIV> </DIV>

<DIV>This works fine! The only difference is that I am using the string 'PX'!!!!!!!!!!!!!!!!!!!!</DIV>

<DIV> </DIV>

<DIV>Man I have had it with this. So unbelievably counterintuitive. Oh, and how is this for more insanity: The above works for unclear reason as stated, but the form of</DIV>

<DIV>indgen(10) has 10 columns. Try replacing that with indgen(1,10) and we have the same problem as above.</DIV>

<DIV> </DIV>

<DIV>If the creators of this API are watching, can you please write a user's manual for HDF_VD alone?</DIV>

<DIV> </DIV>

<DIV>-brian</DIV>

<DIV> </DIV>

<DIV> </DIV>

<DIV>"James Kuyper" <kuyper@saicmodis.com> schrieb im Newsbeitrag news:3DA59E5F.F5098369@saicmodis.com...</DIV>> > Brian Huether wrote:
> >
> > This is quite maddening. I am using IDL 5.2 and am working with HDF
> > files. Consider an array with 2 columns, where each col is a field and
> > each row a record. In the language of HDF, that would be a VDATA. In
> > theory, then the following commands should work:
> >
> > fid=HDF_OPEN('test.hdf',/CREATE)
> > Vdat2 = HDF_VD_ATTACH(fid, -1, /WRITE)
>
> > Before you can write any records, you first need to call HDF_VD_DEFINE
> > to define each field in the vdata:
>
> > IDL> HDF_VD_FDEFINE, Vdat2, 'F1', /FLOAT
> > IDL> HDF_VD_FDEFINE, Vdat2, 'F2', /FLOAT
> >
> > HDF_VD_WRITE, Vdat2, 'F1,F2', fltarr(2,10)
>
> > I'm not entirely sure what the field list argument is for in
> > HDF_VD_WRITE. The corresponding raw HDF function can only write an
> > entire record, and can only be called for a vdata that has

