
Subject: PV-WAVE

Posted by [grueber](#) on Wed, 28 Jun 1995 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

My Problem with the PV-WAVE SDS interface, a subset of HDF from NCSA:

I want to read a one dimensional array of a scientific data set (SDS) from a HDF file via the function SDreaddata into a two dimensional array (respective into a subarray of buffer array).

For example:

```
-----  
length = 3000000L  
number = 12L  
  
buffer = intarr(length,number)  
  
k = 2  
...  
  
status = SDreaddata(sdsid,[0],[1],[len],buffer(0:len,k))  
-----  ^^^^^^^^^^^^^^^
```

This example doesn't work, despite it's possible to address subarrays in this manner (array(from:to)) in PV-Wave. Status doesn't indicate an error! I work around it in this way:

```
-----  
tmpbuf = intarr(len)  
  
...  
status = SDreaddata(sdsid,[0],[1],[len],tmpbuf)  
  
buffer(0:len,k) = tmpbuf  
-----
```

But the disadvantage of this work around is the unacceptable waste of time for the additional copy operation. Reading 4 MB via SDreaddata lasts about 2 seconds, but copying the buffer lasts about 10 seconds !!??!! (This tests were made on a Sparc 20 with enough memory and fast hard disks)

Does anybody have a solution or a more efficient work around for this problem?

Thanks for help in advance

Wilhelm Grueber

PS: Please send an email directly to my address (grueber@dv.kp.dlr.de)
