
Subject: PV-WAVE/HDF/SDS

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

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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

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