Subject: PV-WAVE

Posted by grueber on Wed, 28 Jun 1995 07:00:00 GMT

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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 SDreaddate into a two dimensional array (respective into a subarry of buffer array).

For example:

lenath = 3000000L

number = 12L

buffer = intarr(length,number)

k = 2

status = SDreaddata(sdsid,[0],[1],[len],buffer(0:len,k))

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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 Gr"uber

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

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