Subject: Re: defining structure after ascii template Posted by David Fanning on Mon, 16 Sep 2013 17:24:29 GMT

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spluque@gmail.com writes:

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>
> On Monday, September 16, 2013 11:02:11 AM UTC-5, David Fanning wrote:
>> splugue@gmail.com writes:
>>
>>
>>> As far as I can see, it is not possible to define a structure using a template as the one built
via ascii_template(). Essentially, extract a sub-structure from the template returned by
ascii_template, containing the column names as tags and the field type. What is the proper way
to do this?
>>
>>
>>
>> I honestly have no idea what this question means. Why don't you explain
>>
>> to us what you are trying to do.
>
  Sorry for the terse initial post. Here is what I am trying to do:
  1. I've prepared a template with ascii_template() for reading in an ASCII file via read_ascii().
> 2. Before reading the data with read ascii(), I need to prepare an *array* of structures, where
each element is a record (row) in a number of files to be read with the template in (1).
>
  3. read ascii() creates a structure that looks like this:
>
> help, data, /structures
  ** Structure <57e3008>, 23 tags, length=7800864, data length=7800864, refs=1:
    FIELD01
                  LONG
                             Array[84792]
>
    FIELD02
                   FLOAT
                             Array[84792]
>
                  LONG
    FIELD03
                             Array[84792]
> ...[many more fields]
> So the array of structures to be created would like this (abbreviating the number of fields for
brevity here):
> p={'foo', FIELD01:0L, FIELD02:0.0, FIELD03:0L}
> replicate(p, n_recs)
> where n_recs is the total number of records expected.
> So the guestion is how can p be created from the information already there in the template
```

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created in (1)?
Well, p *is* the structure you obtained. I guess I don't see the problem:
IDL> struct = ascii_template()
```

IDL> help, struct ** Structure <701c24d0>, 10 tags, length=320, data length=313, refs=1: **VERSION FLOAT** 1.00000 DATASTART LONG 0 DELIMITER BYTE 32 MISSINGVALUE FLOAT NaN COMMENTSYMBOL STRING FIELDCOUNT LONG 10 **FIELDTYPES** LONG Array[10] **FIELDNAMES** STRING Array[10] FIELDLOCATIONS LONG Array[10] Array[10] **FIELDGROUPS** LONG

IDL> data = Replicate(struct, 100)

David

Cheers,

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David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")