Subject: Re: Reading in data question
Posted by R.Bauer on Mon, 20 Apr 2009 09:33:26 GMT
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David Fanning schrieb:
> tomandwilltamu08@gmail.com writes:
>
>> After going back through your code carefully, it all makes perfect
>> sense and is very well written. I'm not sure I could have thought of
>> that myself - but I guess thats why I'm the guy asking the question
>> and you're the guy answering the question...
>
> I'll just point out one other thing for the article you
> are writing. The nice thing about arrays of structures
> is that you can easily pull vectors out of the structure
> fields.
>
> So, in the example yesterday, if you wanted a vector
> of all the "int_1" values in the third "unit" in the
> file, you can do this:
>
> IDL> d = unpackData(data[2])
> IDL> help, d
>   D   STRUCT   = -> <Anonymous> Array[5]
> IDL> vector = Reform(d.int_1[*])
> IDL> print, vector
>   1   2   3   4   5
>
> Cheers,
>
> David

and reads in combination with structures is also very nice.


```
IDL> a=make_Array(5,2,/ind)
IDL> help,a
A          FLOAT    = Array[5, 2]
IDL> print,a
     0.00000    1.00000    2.00000    3.00000    4.00000
     5.00000    6.00000    7.00000    8.00000    9.00000
IDL> s=replicate({a:fltarr(5)},2)
IDL> help,s
S          STRUCT    = -> <Anonymous> Array[2]
IDL> reads, a, s
IDL> print,s
{    0.00000    1.00000    2.00000    3.00000    4.00000
```

```
}{
    5.00000     6.00000     7.00000     8.00000     9.00000
}
```

Of course that is a very simple example. But you can feel the power. :)

cheers
Reimar