
Subject: Re: Combine ascii and binary format (i.e. formatted and unformatted)
Posted by [Craig Markwardt](#) on Fri, 14 Apr 2000 07:00:00 GMT
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"Vince Hradil" <hradilv@yahoo.com> writes:

> Won't this work?
[see below]

I think it won't. The point was that the first number, myInteger, was printed with formatted I/O, while the data itself was unformatted binary.

In this situation I believe it's best to dispense with format statements and do it the hard way. Formatted I/O leaves the file pointer in an unpredictable position (*before* or *after* the space?), and there's no efficiency lost when you're reading a few characters.

My suggestion:

```
myInteger = 0
myBlank = 0B
myArray = dblarr(sizeofMyArray)
```

```
openr, lun, 'filename', /get_lun
readf, lun, myInteger ;; Formatted I/O
point_lun, lun, 0L ;; Rewind
repeat readu, lun, myBlank until string(myBlank) EQ ' ' ;; Skip past space
readu, lun, myArray ;; Unformatted I/O
free_lun, lun
```

This is the first time I have ever used "repeat" by the way.

Craig

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>
> "Nicolas Decoster" <Nicolas.Decoster@Noveltis.fr> wrote in message
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> news:38F74DBF.AEDC4EC@Noveltis.fr...
>> Hi !
>>
>> I have (once again) a newbie question.
>>
>> I need to read files I created using C. They have the following format:
>> an ascii integer, followed by a blank space followed (with no new line)
>> by a binary array of double. In C, these files are created like that:
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>>
>> Does someone know how I can read such files with IDL ? I tried, but I
>> can't figure how to specify the format string to read my integer, the
>> space after it and nothing else, so that I can get my array with a
>> simple readu.
>>
>> Thanks for any help.
>>
>> Nicolas.
>>
>> --

>> Fax : 00 (33) 5 62 88 11 12
>> Nicolas.Decoster@Noveltis.fr
>>
>> Noveltis
>> Parc Technologique du Canal
>> 2, avenue de l'Europe
>> 31520 Ramonville Saint Agne - France
>
>

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

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> readu, lun, myArray
```

> close, lun

Or, more likely,

```
openr, lun, 'filename', /get_lun
readu, lun, myInteger, myBlank, myArray
free_lun, lun
```

Cheers,

David

P.S. Closing logical unit numbers that are obtained from
GET_LUN will NOT free them. However, freeing them WILL
close them, too. :-)

--

David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

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