
Subject: Mixed ASCII/Binary Files

Posted by [DALY](#) on Wed, 25 Jun 1997 07:00:00 GMT

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Hi,

I'm running IDL 4.0.1 under Windows 95 and am having a heck of a time doing anything with mixed ASCII/binary files (header/data) files. I've tried all kinds of tricks to read the header and then the data, but IDL's file pointer keeps getting lost. Does anybody know of any fixes/patches? I know I can separate the header and data with another package and then read into IDL, but that kind of defeats the purpose of having a high-power package like IDL. Any comments/suggestions will be greatly appreciated.

Thanks,
Chaz Daly

Subject: Re: Mixed ASCII/Binary Files

Posted by [David Foster](#) on Thu, 26 Jun 1997 07:00:00 GMT

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DALY wrote:

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>

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> comments/suggestions will be greatly appreciated.

Chaz -

I'm not sure what kind of data you're trying to read, but I'll include a code snippet from a program I have that will extract individual 2D images out of a single file that contains a 3D array. The file can have a header, and you can either specify the size of the header to "skip" (and return as argument) or specify a specific string that signifies the end of the flag. Here's the code, it may serve as an example. Let me know if you'd be interested in the entire program.

```
; Skip over header if HEADER_SIZE or HEADER_FLAG specified
```

```

if ( keyword_set( HEADER_SIZE ) ) then begin
    header_array = bytarr( header_size )
    readu, unit, header_array
endif else if ( keyword_set( HEADER_FLAG ) ) then begin

    ; Search file for flag signaling end of header

    line = ""
    temp = ""

    while ( line ne header_flag and not eof( unit ) ) do begin
        finfo = fstat( unit ) ; Get file position before read
        readf, unit, line
        if ( keyword_set( HEADER_ARRAY ) ) then $
            temp = [ temp, line ]
    endwhile

    if ( keyword_set( HEADER_ARRAY ) ) then begin
        header_array = temp( 1 : n_elements( temp ) - 1 )
        temp = 0
    endif

    ; Ensure that file pointer is just AFTER the header flag!
    ; (READF may have grabbed too many bytes)

    point_lun, unit, finfo.cur_ptr + strlen( header_flag )

    if ( line ne header_flag ) then begin
        status = 1
        message, 'Header flag ' + header_flag + $
            ' not found in file ' + fname, /continue
    endif

```

Hope this helps.

Dave

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```

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~~~~~

```

"I have this theory that if we're told we're bad,

then that's the only idea we'll ever have.
But maybe if we are surrounded in beauty,
someday we will become what we see." - Jewel Kilcher

Subject: Re: Mixed ASCII/Binary Files
Posted by [DALY](#) on Thu, 26 Jun 1997 07:00:00 GMT
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Hi Chaz Daly here,

I'm the originator of this thread. Thanks to all for the help...
Brian Jackel's fix worked best. Here are the specifics...

I created files using Labview 3.0.1. The files consist of
a 6 line ASCII header (the header values can be positive
or negative so the header length is variable) followed by
image data. The number of pixels being contained in the header.

I tried reading the header in a variety of ways and then, using
FSTAT, tried to pick up reading the binary (image) data where the
header left off. Problem was that the pointer returned by FSTAT
would sometimes be way past the end of the header.

Brian told me to set my BUFSIZE = 0 on opening the file...it worked!
Again, thanks to everybody for the help...

Chaz Daly out

On Wed, 25 Jun 1997, DALY wrote:

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