
Subject: Re: importing ascii files

Posted by [Pavel A. Romashkin](#) on Thu, 11 Jul 2002 22:04:20 GMT

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How about the following:

; P. Romashkin, 2001

; Parameters: FILENAME - name of ASCII file to read, OUT - structure with

; names of variables as fields, N_COLS - number of columns to read.

pro read_ascii_columns, filename, out, n_cols=n_cols

compile_opt IDL2, obsolete

if n_elements(n_cols) eq 0 then message, 'Specify number of columns!'

header = "

buffer = fltarr(n_cols, 1000)

openr, SourceFile, /get_lun, filename

readf, SourceFile, header

; If Buffer was longer than file, reading will fail. In such case,
reduce buffer.

FileTooShort = 0b ; Just to skip buffer reduction the first time.

on_ioError, reduce_buffer

reduce_buffer : if FileTooShort eq 1b then begin

unread_rows = (fstat(SourceFile)).Transfer_Count / n_cols

if unread_rows eq 0 then goto, finish

Buffer=fltarr(n_cols, unread_rows)

point_lun, SourceFile, LastPos

endif

FileTooShort = 1b ; In case of ioError, this will be set to 1b

while not EOF(SourceFile) do begin

point_lun, (-SourceFile), LastPos ;Memorize start in case it fails.

readf, SourceFile, Buffer

if n_elements(resultArray) eq 0 then resultArray = Buffer \$

else ResultArray = [[ResultArray], [Buffer]]

endwhile

finish:

free_lun, SourceFile ; Done using the file.

header = strsplit(header, /extract)

resultArray = transpose(resultArray)

out = create_struct(header[0], resultArray[*], 0)

for i = 1, n_elements(header)-1 do \$

out = create_struct(out, header[i], resultArray[*], i)

end

You may have to clean up line breaks.

Cheers,
Pavel

Heather wrote:

>

> We have a program written in IDL that extracts data and puts it into a
> text file. We want to put the columns of the text file into some kind
> of storage device so that we can access the columns separately in
> another IDL program. We are trying to write a program that
> incorporates the `import_ascii` macro, but are open to any other ideas
> at this point.

>

> Heather
