Subject: Re: Reading a set of data with string type entries
Posted by AlbertoPaolo.Meroni on Fri, 30 Nov 2007 07:32:40 GMT
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On 30 Nov, 08:07, izim...@gmail.com wrote:
> IDL> s = strjoin(['info', string(randomu(seed,10))], ' ')
> IDL> vals = float((strsplit(s, ' *', /regex, /extract))[1:*])
>
> For large files I sometimes read the whole thing into a bytarr and
> split on line breaks
> something like
>
> openr, lun, 'big.txt',/get_lun
> fs = fstat(lun)
> buf = bytarr(fs.size)
> readu, lun, buf
> free_lun, lun
> buf = strsplit(string(buf), string([13b,10b]),/extract) ; split on CR
> +LF

I suggest to use the following code:

```
; -----------------
FUNCTION ReadUnformattedAscii, FileName
  COMPILE_OPT IDL2
  IF ~FILE_TEST(FileName) THEN RETURN,0
;  # of line
  nLines = FILE_LINES(FileName)

  OPENR,Lun,FileName,/Get_Lun
; Read First Line to establish # of Values inside the record
  dummy = ''
  READF,Lun,Dummy
  POINT_LUN,Lun,0
  Dummy = STRCOMPRESS(dummy)
  void = STRSPLIT(dummy,Count=nFields)
  nValues = NFields-1
; Define my output structure
  str_out = {Text:'', $
             Values: FLTARR(nValues)}
  str_out = REPLICATE(str_out,nLines)
; Define Tmp Vars
  TmpArr = FLTARR(nValues)
  TmpStr = ''
  FOR j = 0, nlines-1 DO BEGIN
    READF,Lun,Dummy
    dummy = STRCOMPRESS(dummy)
    lText = STRPOS(dummy,' ')
```

```
    rForm = '(A'+STRCOMPRESS(STRING(lText))+','+ $
          STRCOMPRESS(STRING(nValues))+'F0)'
    READS,dummy,TmpStr,TmpArr,FORMAT=rForm
    str_out[j].Text   = TmpStr
    Str_out[j].Values = TmpArr
  ENDFOR
  FREE_Lun,Lun
  RETURN,str_out
END
; ----------------------------
```