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Subject: Re: Retrieving Specific Data From a .txt file - PVWAVE  
Posted by [Helder Marchetto](#) on Wed, 25 Apr 2012 20:03:49 GMT  
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Hi,  
I don't know about pv-wave, but below is the IDL code I would use and I'm not an expert... I just try to make things work. Please notice:

- that there is no control that the inserted number is in fact a number. In case it is not, it will either complain or go through the procedure without getting any hit.
- if you're trying to get the last shot number and the file ends on the last line (or on the line just after), the last input line will not be found. Add to your file a line with something like "end" to be on the safe side
- if the number of lines for each shot is high, then the code line `MyInputData = [MyInputData,Str]` will become very inefficient. If you know how many lines you will expect it is best to make the array beforehand, otherwise you might have to loop through and count the lines...

Hope it helps.

Cheers, Helder

PRO ReadShots

```
ShotNr = 0
READ, PROMPT='Enter Shot Number: ', ShotNr
ShotNr = LONG(ShotNr)

OPENR, LunShots, 'F:\YourDirectory\Shots.txt', /GET_LUN
Str = ""
MyInputData = ""
WHILE ~EOF(LunShots) DO BEGIN
    READF, LunShots, Str
    Pos = STRPOS(STRUPCASE(Str), 'SHOT')
    IF Pos GE 0 THEN BEGIN
        SplitStr = STRSPLIT(Str, /EXTRACT)
        IF LONG(SplitStr[1]) EQ ShotNr THEN BEGIN
            READF, LunShots, Str
            Pos = STRPOS(STRUPCASE(Str), 'SHOT')
            WHILE Pos EQ -1 && ~EOF(LunShots) DO BEGIN
                MyInputData = [MyInputData,Str]
                READF, LunShots, Str
                Pos = STRPOS(STRUPCASE(Str), 'SHOT')
            ENDWHILE
            GOTO, ExitFileSearchLoop
        ENDIF
    ENDIF
ENDWHILE

ExitFileSearchLoop:CLOSE, LunShots
```

```
FREE_LUN, LunShots
nFound = N_ELEMENTS(MyInputData)
IF (nFound GT 1) THEN BEGIN
  Header  = STRARR(nFound-1)
  FirstNum = LONARR(nFound-1)
  SecondNum = LONARR(nFound-1)
  ThirdNum = LONARR(nFound-1)
  FOR I=1,nFound-1 DO BEGIN
    Res = STRSPLIT(MyInputData[I],/EXTRACT)
    Header[I-1] = Res[0]
    FirstNum[I-1] = Res[1]
    SecondNum[I-1] = Res[2]
    ThirdNum[I-1] = Res[2]
  ENDFOR
  PRINT, Header
  PRINT, FirstNum
  PRINT, SecondNum
  PRINT, ThirdNum
ENDIF
END
```

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