Subject: Re: IDL input files.
Posted by ryanselk on Mon, 18 Jun 2007 22:19:56 GMT
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On Jun 18, 3:23 pm, Paul van Delst <Paul.vanDe...@noaa.gov> wrote:
> ryans...@gmail.com wrote:
>> On Jun 18, 1:15 pm, David Fanning <n...@dfanning.com> wrote:
>>> Paul van Delst writes:
>>>> ryans...@gmail.com wrote:
>>>> > ive been reading some manuals and books for IDL but im not sure how to
>>>> > solve this likely simple problem.
>>>> > I have this I need to input to idl (.txt file):
>>>> > Name = {Joe}
>>>> > Department = {CS}
>>>> > Age = {25}
>>>> > and in IDL i need to save each attribute to its own variable. But if,
>>>> > lets day, department is ommited I want it to not input age as
>>>> > department. With c/c++ this isnt so bad as you can search the file for
>>>> > a 'keyword' and print the value from there, but I cant find how to do
>>>> > this in IDL.
>>>> Well, I don't think you can search the file in IDL, but you can read it in line by line
>>>> and search the lines. Why not create the file as IDL commands? e.g.:
>>>> ??
>>>> IDL> .run test
>>>> % Compiled module: TEST.
>>>> IDL> test
>>>> NAME STRING = 'Joe'
>>>> DEPARTMENT STRING = 'CS'
>>>> AGE INT = 25
>>>> IDL> $more test.input
>>>> Name = "Joe"
>>>> Department = "CS"
>>>> Age = 25
>>> Well, I'd do this a little differently:
>
>>> pro test, name, dept, age
>
>>> ; Create file to read
>>> openw, lun, 'test.input', /get_lun
>>> if n_elements(name) NE 0 then $
>>> printf, lun, 'Name = ' + name else $
>>> printf, lun, 'Name = '
>>> if n_elements(dept) NE 0 then $
>>> printf, lun, 'Department = ' + dept else $
>>> printf, lun, 'Department = '
>>> if n_elements(age) NE 0 then $
>>> printf, lun, 'Age = ' + StrTrim(age,2) else $
>>> printf, lun, 'Age = '

```
>
>>>       free_lun, lun
>
>>>       ; Now read the file
>>>       openr, lun, 'test.input', /get_lun
>>>       buffer = ' '
>>>       while not eof(lun) do begin
>>>         readf, lun, buffer
>>>         parts = StrSplit(buffer, " ", /Extract)
>>>         case n_elements(parts) of
>>>            2: print, 'No value for ' + parts[0]
>>>            3: print, parts[0] + '= {' + parts[2] + '}'
>>>            else: print, 'Whoa, I am like totally confused!!'
>>>         endcase
>>>      endwhile
>>>       free_lun, lun
>>>     end
>
>>>  Then try it like this:
>
>>>    IDL> test, 'coyote', 'PE', 43
>>>       Name= {coyote}
>>>       Department= {PE}
>>>       Age= {43}
>
>>>    IDL> test
>>>       No value for Name
>>>       No value for Department
>>>       No value for Age
>
>>>  Cheers,
>
>>>  David
>>>  --
>>>  David Fanning, Ph.D.
>>>  Fanning Software Consulting, Inc.
>>>  Coyote's Guide to IDL Programming:http://www.dfanning.com/
>>>  Sepore ma de ni thui. ("Perhaps thou speakest truth.")
>
>>  Thank you guys! these should help, although I cant have IDL writing
>>  the program unfortunately. Ill have to figure out how to get the pre-
>>  made files read.
>
>  Um, that's what these examples do. The writing of the test input files was simply to
>  provide an entirely self-contained example. The various details that aren;t addressed are
>  the formats of the files. If you can't create them (i.e. change their formats to make them
>  more "IDL friendly" as it were), then all that needs to be modified in both David's and my
>  examples is how you extract the relevant information from the string you read from file
```

> (i.e. the STRSPLIT.)
>
> On a side note, I initially started using regular expressions with the STRSPLIT function
> only to discover IDL seems to use a hamstrung version that doesn't understand stuff like
> \s, \w, \n, etc. For the format you list, e.g.
>
> Name = {Joe}
> Department = {CS}
> Age = {25}
>
> regexps would be the go (IMO) - although I don't see any mention of how you would capture
> certain parts of a match and not others (but I didn't look too hard :o)
>
> cheers,
>
> paulv
>
> --
> Paul van Delst Ride lots.
> CIMSS @ NOAA/NCEP/EMC Eddy Merckx

haha, I realized this as soon as I looked at the code but didnt at the
time of my last post.

I got things working excellent. The strsplit I have working very well
for my application. Somehow I didnt know about this command, now I got
it figured out, very useful tool that I have missed.

Thanks again guys!
