Subject: Using a text list to populate a LIST() in IDL Posted by johnson.dustin.astro on Sun, 23 Feb 2014 22:31:14 GMT

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Hi,

I am writing a function/routine that makes use of a user provided list of strings. Right now, the user needs to edit the LIST(a,b,c,d) parameter. I was wondering if there is a way for me to have the routine reference a .txt file and use the contents to populate the list, rather than have the user edit the function.

Does anyone know how I would accomplish this?

Thanks!

Subject: Re: Using a text list to populate a LIST() in IDL Posted by Paul Van Delst[1] on Mon, 24 Feb 2014 17:20:25 GMT View Forum Message <> Reply to Message

```
I created a test file, "test string.txt", that contains the following
(minus the "%<" lines):
----%<-----
this is string one
and now string two
this little piggy cried wee wee wee...
the end
----%<-----
Then the procedure:
----%<-----
pro read into list, user list
 user_list = list()
 openr, fid, "test_string.txt", /get_lun
 cbuffer = ""
 while (~ eof(fid)) do begin
  readf, fid, cbuffer
  user list.add, cbuffer
 endwhile
```

Running the above in IDL:

free_lun, fid

----%<-----

end

```
IDL> .run read into list
% Compiled module: READ_INTO_LIST.
IDL> read_into_list, x
IDL> help, x
Χ
          LIST <ID=1 NELEMENTS=4>
IDL> for i=0, n_{elements}(x)-1 do help, x[i]
<Expression> STRING = 'this is string one'
<Expression>
               STRING = 'and now string two'
<Expression> STRING = 'this little piggy cried wee wee wee...'
<Expression>
               STRING = 'the end'
When I edit the file and run again I get
IDL> read_into_list, x
IDL> for i=0, n_{elements}(x)-1 do help, x[i]
<Expression>
               STRING = 'this is string one'
               STRING = 'and now string two'
<Expression>
<Expression> STRING = 'toss in a third string,'
<Expression> STRING = 'this little piggy cried wee wee wee...'
<Expression> STRING = 'the end'
<Expression> STRING = 'not really. This the the last line'
How's that?
cheers,
paulv
On 02/23/14 17:31, johnson.dustin.astro@gmail.com wrote:
> Hi,
>
> I am writing a function/routine that makes use of a user provided
of strings. Right now, the user needs to edit the LIST(a,b,c,d)
parameter. I was wondering if there is a way for me to have the routine
reference a .txt file and use the contents to populate the list, rather
than have the user edit the function.
> Does anyone know how I would accomplish this?
>
> Thanks!
```

Subject: Re: Using a text list to populate a LIST() in IDL Posted by Dick Jackson on Tue, 25 Feb 2014 04:04:57 GMT

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```
Hi folks,
```

If an extra copy of the strings will fit in memory, this might be easier:

```
f = 'test_string.txt'
strs = StrArr(File Lines(f))
OpenR, unit, f, /Get_LUN
ReadF, unit, strs
Free_LUN, unit
strList = List(strs, /EXTRACT)
Cheers.
-Dick
Dick Jackson Software Consulting Inc.
Victoria, BC, Canada
www.d-jackson.com
Paul van Delst wrote, On 2014-02-24, 9:20am:
> I created a test file, "test string.txt", that contains the following (minus the
> "%<" lines):
>
> ----%<-----
> this is string one
> and now string two
> this little piggy cried wee wee wee...
> the end
> ----%<-----
> Then the procedure:
> ----%<-----
> pro read_into_list, user_list
  user_list = list()
   openr, fid, "test_string.txt", /get_lun
   cbuffer = ""
   while (~ eof(fid)) do begin
>
    readf, fid, cbuffer
>
    user list.add, cbuffer
  endwhile
  free_lun, fid
> end
> ----%<-----
```

```
>
  Running the above in IDL:
>
>
>
> IDL> .run read_into_list
> % Compiled module: READ_INTO_LIST.
> IDL> read_into_list, x
> IDL> help, x
> X
            LIST <ID=1 NELEMENTS=4>
> IDL> for i=0, n_elements(x)-1 do help, x[i]
> <Expression>
                 STRING = 'this is string one'
                 STRING = 'and now string two'
> <Expression>
> <Expression> STRING = 'this little piggy cried wee wee wee...'
                 STRING = 'the end'
> <Expression>
>
 When I edit the file and run again I get
>
> IDL> read_into_list, x
> IDL> for i=0, n_elements(x)-1 do help, x[i]
> <Expression> STRING = 'this is string one'
> <Expression> STRING = 'and now string two'
> <Expression> STRING = 'toss in a third string,'
> <Expression> STRING = 'this little piggy cried wee wee wee...'
> <Expression> STRING = 'the end'
> <Expression> STRING = 'not really. This the the last line'
>
 How's that?
>
>
>
 cheers,
>
> paulv
>
  On 02/23/14 17:31, johnson.dustin.astro@gmail.com wrote:
>> Hi,
>>
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>> I am writing a function/routine that makes use of a user provided
> of strings. Right now, the user needs to edit the LIST(a,b,c,d)
> parameter. I was wondering if there is a way for me to have the routine
  reference a .txt file and use the contents to populate the list, rather
> than have the user edit the function.
>>
>> Does anyone know how I would accomplish this?
>>
>> Thanks!
```

Subject: Re: Using a text list to populate a LIST() in IDL Posted by Paul Van Delst[1] on Tue, 25 Feb 2014 14:09:32 GMT View Forum Message <> Reply to Message

Ooo... nice one. Much simpler/better.

On 02/24/14 23:04, Dick Jackson wrote:

> Hi folks,

> If an extra copy of the strings will fit in memory, this might be easier:

> f = 'test_string.txt'

> strs = StrArr(File_Lines(f))

> OpenR, unit, f, /Get_LUN

> ReadF, unit, strs

> Free_LUN, unit

> strList = List(strs, /EXTRACT)

>

Subject: Re: Using a text list to populate a LIST() in IDL Posted by johnson.dustin.astro on Wed, 26 Feb 2014 04:06:05 GMT View Forum Message <> Reply to Message

On Sunday, February 23, 2014 2:31:14 PM UTC-8, johnson.du...@gmail.com wrote:

> Hi,

>
>
>
>
>
I am writing a function/routine that makes use of a user provided list of strings. Right now, the user needs to edit the LIST(a,b,c,d) parameter. I was wondering if there is a way for me to have the routine reference a .txt file and use the contents to populate the list, rather than have the user edit the function.

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