
Subject: Re: Removing (or replacing) substrings in a string array
Posted by [Michael Galloy](#) on Wed, 22 Jan 2014 22:57:46 GMT
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On 1/22/14, 7:13 AM, Mats Löfdahl wrote:

- > Say I have a string array where each string may or may not begin with
- > a dot (".") and may or may not end with a dot. What is an efficient
- > (non-loop?) way of removing those dots in IDL 7?
- >
- > The reason I specify IDL 7 is that I realize this could be done with
- > strsplit in IDL 8 but in IDL 7 strsplit does not support string
- > arrays.
- >
- >
- > Alternatively, if I could make it so those dots are not there in the
- > first place, that's even better. What I'm trying to do it to parse an
- > array of strings, where the fields are separated by dots but I cannot
- > identify the substrings by their position. What I can do is to
- > identify them with regular expressions because they all have
- > different forms. And stregex supports string arrays also in IDL 7.
- >
- > So I can do something like
- > strmid(stregex(strlist, '\.[0-9]{5}\./extr), 1, 5) if I know I have a
- > five-digit number surrounded by dots. I remove the dots with the
- > strmid command.
- >
- > But any field can also be first or last, so to find it I need to do
- > stregex(strlist, '(\.|^)[0-9]{5}(\.|\$)', /extr). But then one of the
- > dots will be missing in those cases when the field really is first or
- > last, so the simple strmid operation does not work.
- >
- > And some fields can have variable lengths but be identified by an
- > initial character, so I could find it with something like
- > stregex(strlist, '(\.|^)[+-][0-9]+(\.|\$)', /extr). In this case strmid
- > does not work even when there is a dot at the end, because I don't
- > know its position.
- >
- > Would be great if I could tell stregex to return everything but the
- > dots (if present) but I don't know if that is possible. Can't you do
- > something like that with regular expressions in the shell? Or was it
- > in elisp?
- >
- >
- > I wanted to educate myself and went looking for "Making Regular
- > Expressions Your Friends" by Mike Galloy but the links seem to be
- > dead in <http://michaelgalloy.com/2006/06/11/regular-expressions.html>
- > and the link in
- > http://www.exelisvis.com/docs/Learning_About_Regular_E.html leads to

> a page telling me that "The mgunit project site has moved to Github"
> and when I follow the provided link to github I can't find the
> document.
>
>
> Hmm... I guess if I substitute '.'+strlist+'.' for strlist in all
> stregex calls I don't have to worry about the case where there are no
> dots. But that seems not so elegant and it still does not solve the
> problem with unknown lengths.
>

Check out MG_STREPLACE:

https://github.com/mgalloy/mglib/blob/master/src/strings/mg_streplace.pro

I have that "Making Regular Expressions Your Friends" article here
somewhere too. I will update the link on my website and post here when I
find it. Have to run now...

Mike

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Michael Galloy

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Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)

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