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Subject: Re: stregex - lookahead operators?  
Posted by [rtowler](#) on Thu, 18 Oct 2007 16:53:57 GMT  
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Thanks Chris,

I ended up pretty much doing the same thing you did but I used STRSPLIT or STRMID depending on my mood.

```
rid= STREGEX(dg.dgram, '[0-9]*</rid>', /EXTRACT)
rid = LONG((STRSPLIT(rid, '<'))[0])
```

```
xcvrs = STREGEX(dg.dgram, '[ a-zA-Z0-9,\-]*</value>', /EXTRACT)
xcvrs = STRMID(xcvrs, 0, STRLEN(xcvrs) - 8)
```

Luckily my input strings will always only contain one pair of tags for each type so I don't have to resort to loops for processing. Still, I think this is rather ugly and will request that the regex engine in IDL be updated to include the lookahead operators.

-Rick

On Oct 18, 12:56 pm, Spon wrote:

> On Oct 17, 5:35 pm, wrote:

>

>> Does stregex support the lookahead and lookbehind operators? I'm  
>> guessing it doesn't, which is a real bummer. Specifically I am trying  
>> to use the lookahead operator to extract data from an XML like string:  
>> '[^>]\*(?=</rid>)' which should extract all characters before the </  
>> rid> tag up to ">". But I get an error:

>

>> STREGEX: Error processing regular expression: [^>]\*(?=</rid>)  
>> repetition-operator operand invalid

>

>> I think the expression is valid. Has anyone used the lookahead  
>> operators in IDL?

>

>> -r

>

> This is the best I could do. Not elegant, probably not efficient, but  
> it throws up a few questions of its own:

>

> \*\*\*\*\*

>

> FUNCTION STREGEXTEST, StrExpr

>

> IF N\_PARAMS() EQ 0 THEN \$

```

> StrExpr = ['<rid> Stuff in here </rid>', $
> '<rid> All of this stuff in here </rid>', $
> '<html> Not this stuff </html>', 'frog', $
> '>.<', '<grid> Not this either </grid>', $
> '</html> <rid> This stuff too </rid>', $
> '<rid> Even this</rid> <foo>!</foo>', $
> 'The acid test </rid>' ]
>
> ; StrExprTemp = StrExpr
>
> RegStr = '>[^>]*(</rid>)'
>
> Streg = STREGEX (StrExpr, RegStr, $
> LENGTH = Length)
> ExtrStreg = STREGEX (StrExpr, RegStr, /EXTR)
>
> PRINT, Streg
> PRINT, ExtrStreg
>
> Index = WHERE (Streg GE 0, Count)
> IF Count EQ 0 THEN RETURN, "
>
> Streg = Streg [Index]
> Length = Length [Index]
> PosExp = StrExpr [Index]
>
> Streg += 1 ; Manually move your location
> Length -= 7 ; and length pointers to
>           ; exclude the Lookarounds
>
> ; ; This doesn't work for string arrays,
> ; ; even if Streg and Length have the
> ; ; same dimensions:
> ; Strings = STRMID (PosExp, Streg, Length)
>
> NS = N_ELEMENTS (Streg)
> Strings = STRARR (NS)
> FOR i = 0L, NS - 1 DO $
>   Strings [i] = STRMID (PosExp [i], $
>   Streg [i], Length [i] )
>
> HELP, Strings
> PRINT, Strings
> RETURN, Strings
> END
>
> *****
>

```

> As you can see, I had foolishly assumed that if you call STRMID with  
> three arrays of equal dimensions, IDL would somehow know to  
> 'vectorise' the calculation, but I had to pump it through a FOR loop  
> instead. Can someone show me a way around this?  
>  
> The other commented-out line is this:  
> ; StrExprTemp = StrExpr  
> Which I was using because I thought STREGEX (or possibly STRMID) was  
> changing my input function (I've written functions of my own that  
> ended up doing this, and watched in dismay as my nice 4-dimensional  
> array was decimated to a tiny subset, when all I was doing was trying  
> to was extract the subset from the data, leaving the original intact.  
> It's easy not to do a second time, but quite frustrating the first  
> time you do it!)  
> I seemed to be getting a large array of blank strings after using  
> STREGEX and then STRMID on the input array (the resulting array was of  
> expected dimensions, just empty, contrary to my expectations.) I can't  
> seem to replicate this now, so chances are it was some silly error on  
> my part, but I thought I'd ask if anyone else had come across this?  
>  
> Thanks,  
> Chris

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