Subject: Re: stregex - lookaround operators? Posted by Spon on Thu, 18 Oct 2007 12:56:30 GMT View Forum Message <> Reply to Message On Oct 17, 5:35 pm, rtow...@gmail.com 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 lookaround > 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, "

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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)
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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 them 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,

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