
Subject: Re: How to extract sub-string from array

Posted by [Allan Whiteford](#) on Mon, 28 Jul 2008 09:12:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

Ian Dean wrote:

> Hi,
> I've got an array such as ['Test_data;01', 'Test_data;005',
> 'New_dat;100','Old_dat'....]
>
> What I'd like to do but haven't achieved is create an array of the extension
> past the ';'
> i.e. ['01','005','100',"...."]
> I've tried this:
>
> semi_colon = STREGEX(Data_array, ';')
> ; This gives an array of positions [9, 9, 7,-1...]
>
> I can replace the -1s with string lengths easily enough giving [9, 9, 7,
> 7...]
> However, I can't seem to extract the sub-strings
> I tried
> Extension = STRMID(Data_array, semi_colon + 1)
> but this gives me a 2-d array and no clue which elements I require.
> I suspect that there is some arcane use of histogram, but I am not brave
> enough to try.
>
> I know why the STRMID is failing, because the help says so, because both
> arguments are arrays.
> Looping though the list is not an option as in reality I have an array
> length in the order of 500,000
>
> Any help would be appreciated,
> Regards,
> Ian
>
>

Ian,

How about:

```
numbers=fix(reform((stregex(data_array,';([0-9]+)$',/extract ,/sub))[1,*]))
```

(you might want to change "fix" to "long" if you have numbers over 32,768ish).

Thanks,

Allan

Subject: Re: How to extract sub-string from array
Posted by [Foldy Lajos](#) on Mon, 28 Jul 2008 09:14:36 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Mon, 28 Jul 2008, Ian Dean wrote:

> Hi,
> I've got an array such as ['Test_data;01', 'Test_data;005',
> 'New_dat;100','Old_dat'....]
>
> What I'd like to do but haven;t achieved is create an array of the extension
> past the ';'
> i.e. ['01','005','100',"...."]
> I've tried this:
>
> semi_colon = STREGEX(Data_array, ';')
> ; This gives an array of positions [9, 9, 7,-1...]
>
> I can replace the -1s with string lengths easily enough giving [9, 9, 7,
> 7...]
> However, I can't seem to extract the sub-strings
> I tried
> Extension = STRMID(Data_array, semi_colon + 1)
> but this gives me a 2-d array and no clue which elements I require.
> I suspect that there is some arcane use of histogram, but I am not brave
> enough to try.
>
> I know why the STRMID is failing, because the help says so, because both
> arguments are arrays.
> Looping though the list is not an option as in reality I have an array
> length in the order of 500,000
>
> Any help would be appreciated,
> Regards,
> Ian

Try this: STRMID(STREGEX(Data_array, '.*', /extract), 1)

regards,
lajos

Subject: Re: How to extract sub-string from array

Posted by [Ian Dean](#) on Tue, 29 Jul 2008 08:33:36 GMT

[View Forum Message](#) <> [Reply to Message](#)

news:Pine.LNX.4.64.0807281111470.17704@bifur.rmki.kfki.hu...

>

> On Mon, 28 Jul 2008, Ian Dean wrote:

>

>> Hi,

>> I've got an array such as ['Test_data;01', 'Test_data;005',

>> 'New_dat;100','Old_dat'....]

>>

>> What I'd like to do but haven;t achieved is create an array of the

>> extension

>> past the ';'.

>> i.e. ['01','005','100',"...."]

>> I've tried this:

>>

>> semi_colon = STREGEX(Data_array, ';')

>> ; This gives an array of positions [9, 9, 7,-1...]

>>

>> I can replace the -1s with string lengths easily enough giving [9, 9, 7,

>> 7...]

>> However, I can't seem to extract the sub-strings

>> I tried

>> Extension = STRMID(Data_array, semi_colon + 1)

>> but this gives me a 2-d array and no clue which elements I require.

>> I suspect that there is some arcane use of histogram, but I am not brave

>> enough to try.

>>

>> I know why the STRMID is failing, because the help says so, because both
>> arguments are arrays.

>> Looping though the list is not an option as in reality I have an array

>> length in the order of 500,000

>>

>> Any help would be appreciated,

>> Regards,

>> Ian

>

>

> Try this: STRMID(STREGEX(Data_array, ';.*', /extract), 1)

>

> regards,

> lajos

>

Thanks to all. It's so simple when you know how!!

Regards,

Ian

Subject: Re: How to extract sub-string from array
Posted by [Ian Dean](#) on Thu, 31 Jul 2008 07:36:36 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi again,

Although I had some good help on this problem, it has now got a bit more complicated with more than one semicolon in a string:

```
['Test;1;02;1234', 'Another_test;;2'...]
```

Has anyone come across an array version of STRSPLIT?

It would be great to be able to produce n string arrays of each part of the original:

```
names = ['Test','Another_test'...]
sub_1 = ['1',"..."]
sub_2 = ['02','2'...]
sub_3 = ['1234',"..."]
```

Regards,
Ian

"Ian Dean" <ian.d.dean@baesystems.com> wrote in message
news:488ed1bf\$1_1@glkas0286.greenlnk.net...
>

> news:Pine.LNX.4.64.0807281111470.17704@bifur.rmki.kfki.hu...
>>

>> On Mon, 28 Jul 2008, Ian Dean wrote:

>>

>>> Hi,

>>> I've got an array such as ['Test_data;01', 'Test_data;005',
>>> 'New_dat;100','Old_dat'....]

>>>

>>> What I'd like to do but haven;t achieved is create an array of the
>>> extension

>>> past the ';'

>>> i.e. ['01','005','100',"...."]

>>> I've tried this:

>>>

>>> semi_colon = STREGEX(Data_array, ';')

>>> ; This gives an array of positions [9, 9, 7,-1...]

>>>

>>> I can replace the -1s with string lengths easily enough giving [9, 9, 7,
>>> 7...]

>>> However, I can't seem to extract the sub-strings

>>> I tried

>>> Extension = STRMID(Data_array, semi_colon + 1)

>>> but this gives me a 2-d array and no clue which elements I require.

>>> I suspect that there is some arcane use of histogram, but I am not brave

```
>>> enough to try.
>>>
>>> I know why the STRMID is failing, because the help says so, because both
>>> arguments are arrays.
>>> Looping though the list is not an option as in reality I have an array
>>> length in the order of 500,000
>>>
>>> Any help would be appreciated,
>>> Regards,
>>>   Ian
>>
>>
>> Try this: STRMID(STREGEX(Data_array, '.*', /extract), 1)
>>
>> regards,
>> lajos
>>
> Thanks to all. It's so simple when you know how!!
> Regards,
>   Ian
>
```
