Subject: Help

Posted by psumartoira on Fri, 02 Feb 1996 08:00:00 GMT

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Hi, There.

I am a beginner in IDL. I understand that there is a free software to analyze the 2D cross-correlation function of two images and find the optimal (x,y) offset (shifting pixel of one image relative to the other.

Thanks

Irawan Curtin University,PERTH,AU d@D-ware

Subject: Re: Help

Posted by Pavel Romashkin on Fri, 21 May 1999 07:00:00 GMT

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The task is not strictly defined: the two matrices Tri provided are different in size. Therefore, I treated it as a general problem. Here is a 1-line solution for any size matrix:

print, (bindgen(k*m+m-1, x) mod m) eq 0

Here.

m is the length of the cycle within a row, k is an integer multiplier to obtain the necessary row length, x - arbitrary number of rows.

Example with m=4, k=3, x=5:

IDL> print, (bindgen(3*4+3, 5) mod 4) eq 0

		, ,			J (, ,			,			
1	0	0	0	1	0	0	0	1	0	0	0	1	0	0
0	1	0	0	0	1	0	0	0	1	0	0	0	1	0
0	0	1	0	0	0	1	0	0	0	1	0	0	0	1
0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
1	0	0	0	1	0	0	0	1	0	0	0	1	0	0

Resulting matrix can be trimmed in any fashion you desire. Or, maybe I could just type matrices in, if they were needed precisely and only in the way Tri sent them?...

Cheers,

Pavel

Tri VU KHAC wrote:

```
> Hi folks,
> I'm looking for an efficient way to produce the matrix of type (I woulk
> like to be able to avoid the FOR statement)
> 01010101
> 10101010
> 01010101
> 10101010
>
> OR
> 1001001
> 0100100
> 0010010
> 1001001
> ETC.
> Best regards,
> Tri.
```

Subject: Re: Help Posted by Martin Schultz on Fri, 21 May 1999 07:00:00 GMT View Forum Message <> Reply to Message

```
Tri VU KHAC wrote:
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> ETC.
```

- > Best regards,
- > Tri.

Isn't that coincidence? Take a look at the recent discussion on "AN array slicing function". I posted a routine ARREX that will do the opposite of what you are looking for, i.e. you could extract all the 1's from your matrix with it (probably need several calls though). Now you can go ahead and use the function arrex_ComputeInd (included in arrex.pro) to come up with a function arrexi that returns the indices rather than the values, and then you would write

```
A = intarr(8,4)
A[arrexi(A,[1,0],-1,[2,2]) = 1
A[arrexi(A,[0,1],-1,[2,2]) = 1
```

(or similar) ... If you wait a little, I'll hack arrexi for you as soon as soem other folks have confirmed that arrex works.

Regards, Martin.

--

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Subject: Re: Help

Posted by R.Bauer on Tue, 25 May 1999 07:00:00 GMT

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I like to use matrix operations:

res=a#b print,res gt 0

Cia,

R

Tri VU KHAC wrote:

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```

Subject: Re: Help

Posted by Vapuser on Wed, 26 May 1999 07:00:00 GMT

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"R.Bauer" <R.Bauer@fz-juelich.de> writes:

Very slick!

William

```
> I like to use matrix operations:
> a=[1, -1, 1, -1, 1, -1, 1, -1]
> b=[-1, 1, -1, 1, -1, 1, -1, 1]
> res=a#b
> print,res gt 0
> Cia,
> R
> R
```

```
> Tri VU KHAC wrote:
>> Hi folks,
>> I'm looking for an efficient way to produce the matrix of type (I woulk
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>>
>> ETC.
>>
>> Best regards,
>> Tri.
>
```

Subject: Reading ASCII files as structure: Help Posted by limigt on Thu, 01 Oct 2015 02:15:07 GMT

William Daffer: 818-354-0161: vapuser@catspaw.jpl.nasa.gov

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Hi everyone,

I was wondering if someone could assist me in reading ascii files as structures. I am followin the example shown in http://www.idlcoyote.com/tips/ascii_column_data.html.

mydata.dat is similar to

456.34 23.982 4.8 9/10/2012, 9/15/2012 Brazil 3491.33 10003.1 10.0 8/10/2014 10/10/2014 USA 333.2 1.3 100.2 5/5/2010 8/20/2010 USA 1211.84 22.4 82.2 10/15/2014 10/20/2014 UK

I need to read mydata.dat as var1, var2, var3, datei, datef, cnt

End

However the program stop in ReadF, lun, data with the meassages:

% READF: End of file encountered. Unit: 100 Execution halted at: mydataASCII 11

could someone show me what i am doing wrong?.

Thanks

Lim.

Subject: Re: Reading ASCII files as structure: Help Posted by penteado on Fri, 02 Oct 2015 02:25:50 GMT

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On Wednesday, September 30, 2015 at 11:15:18 PM UTC-3, Lim wrote:

- > However the program stop in ReadF, lun, data with the meassages:
- > % READF: End of file encountered. Unit: 100
- > Execution halted at: mydataASCII 11

>

> could someone show me what i am doing wrong?.

It sounds like the problem happens because you have 3 fields that are strings, and readf is reading them without an explicit format. By default, readf will read a string up to the end of the line. If you do not supply a format, it has no way of knowing at which character the fields datei and datef end, so it reads datei to the end of the line, then will read datef from the next line. You can check to see if that is the case by printing the values of your data array, to see how it was filled up by readf up to the point the program stopped (because it hit the end of the file).

You have to either give readf an explicit format, or read the lines, split them and give each field the proper value. If you have a recent version of my library (pp_lib, http://ppenteado.net/idl/pp_lib/doc/index.html), you can read it just with:

```
',/as_struct,fieldnames=['var1','var2','var3','datei','datef ','cnt'])
When I do that with your example data, I get:
IDL> data
   "VAR1": 456.33999999999997,
   "VAR2": 23.9819999999999999,
   "VAR3": 4.7999999999999998,
   "DATEI": "9/10/2012",
   "DATEF": "9/15/2012",
   "CNT": "Brazil"
 },
   "VAR1": 3491.32999999999999,
   "VAR2": 10003.1000000000000,
   "DATEI": "8/10/2014",
   "DATEF": "10/10/2014",
   "CNT": "USA"
 },
   "DATEI": "5/5/2010",
   "DATEF": "8/20/2010",
   "CNT": "USA"
 },
   "VAR3": 82.200000000000003.
   "DATEI": "10/15/2014",
   "DATEF": "10/20/2014",
   "CNT": "UK"
 }
]
```

data=pp_parsetext('mydata.dat',nheader=0,delimiter=',