```
Subject: Re: IDL batch indexing
Posted by rkombiyil on Tue, 11 Mar 2008 07:06:00 GMT
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On Mar 11, 2:30 pm, Raghu < raghuram.narasim...@gmail.com > wrote:
> Hi all,
>
  I am writing a batch processing routine in order to do some querying.
>
> Steps:
>
  1) Read in 30 images (could be 60 or more..hence using batch)
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> them with each other. So, instead of reading in 30 files separately
> and assigning variable names to them, i want to do it automatically
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> I don't know if i am very clear about my problem.
> Basically, i want to be able to assign unique variable names to each
> file thats read so that i can use those unique IDs to guery and
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> Any ideas? i can give more information or try to be clearer about my
> problem if necessary.
> Raghu
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this worked for me.

```
names=file_search('*.img',count=numfiles)
b=strarr(numfiles)
for i=0,numfiles-1 do b[i]=names[i]
--
/rk
```

Subject: Re: IDL batch indexing
Posted by R.Bauer on Tue, 11 Mar 2008 08:38:52 GMT

```
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Raghu schrieb:
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>

> problem if necessary. > Raghu Ηi well they are already uniq by their index names[0] is the first file names[29] is the last one cheers Reimar Subject: Re: IDL batch indexing Posted by fergason on Tue, 11 Mar 2008 12:49:06 GMT View Forum Message <> Reply to Message In article <b0bd3b46-ab67-4216-b3ff-dfbd88535fcb@s37g2000prg.googlegroups.com>, Raghu < raghuram.narasimhan@gmail.com> writes: > Hi all. > > I am writing a batch processing routine in order to do some querying. > Steps: > 1) Read in 30 images (could be 60 or more..hence using batch) > > Since i am using a file_search method to read in all the files, i want > each file to be given a unique name or ID because i need to compare > them with each other. So, instead of reading in 30 files separately > and assigning variable names to them, i want to do it automatically > using a counter in a loop or something like that. > > Eg: if i=0 and numfiles=30, > i want to name the first file thats read b1, second file b2, third b3, > 30th as b30. > Once these are named, i want to be able to compare b1 to b2 or b3 to > So, its not just about naming these files since that can be done with > a strmid function. > my idea was something like > names=file_search(*.img,count=numfiles) > while i It numfiles

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- > problem if necessary.

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> Raghu

Hi.

I think I know what you want - and it's something that I have to do too.

You could try using execute:

in your loop, read each file in as "infile" then res=execute(b[i]+'=infile')

In the end you'll have a variable for each value of b[i].

The other way to go, if all of the files have the same format, would be to use a structure like:

alldata=replicate({name:a,data:fltarr(100,100)},numfiles) where you just replace the "fltarr(100,100)" bit with whatever your data looks like - you could even have it check the first file to figure the format on it's own.

Then in your loop you just read into alldata[i].data

Bev

Subject: Re: IDL batch indexing Posted by Vince Hradil on Tue, 11 Mar 2008 15:16:12 GMT View Forum Message <> Reply to Message

On Mar 11, 2:06 am, metachronist <rkombi...@gmail.com> wrote: > On Mar 11, 2:30 pm, Raghu < raghuram.narasim...@gmail.com > wrote:

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> for i=0,numfiles-1 do b[i]=names[i]
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```

```
> /rk
or just
b=file_search('*.img',count=numfiles)
;^)
Subject: Re: IDL batch indexing
Posted by R.Bauer on Tue, 11 Mar 2008 17:39:24 GMT
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Beverly LaMarr schrieb:
> In article <b0bd3b46-ab67-4216-b3ff-dfbd88535fcb@s37g2000prg.googlegroups.com>,
> Raghu <raghuram.narasimhan@gmail.com> writes:
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  res=execute(b[i]+'=infile')
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  In the end you'll have a variable for each value of b[i].
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> The other way to go, if all of the files have the same format, would be to use
> a structure like:
> alldata=replicate({name:a,data:fltarr(100,100)},numfiles)
> where you just replace the "fltarr(100,100)" bit with whatever your data looks
> like - you could even have it check the first file to figure the format on it's
> own.
  Then in your loop you just read into alldata[i].data
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> Bev
>
Αh
if that is the case you may want to use a structure.
You can do something like
for i=0,5 do begin
  tag = 'A' + strtrim(i,2)
if i eq 0 then struct=create_Struct(tag,i) else $
  struct=create_Struct(struct, tag,i)
endfor
```

help,struct,/str end

IDL> example

```
** Structure <78bff8>, 6 tags, length=12, data length=12, refs=1: A0 INT 0
```

A1	INT	1
A2	INT	2
A3	INT	3
A4	INT	4
Α5	INT	5

You can access each tag with it's position index e.g. IDL> print, struct.(0) - struct.(1)
-1

You may want to avoid to use execute otherwise that will block you from using your code with the virtual machine of idl.

cheers Reimar

Subject: Re: IDL batch indexing Posted by rkombiyil on Thu, 13 Mar 2008 16:09:53 GMT View Forum Message <> Reply to Message

On Mar 11, 4:06 pm, metachronist <rkombi...@gmail.com> wrote:

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Well, Reimar is right. I have never used file search, I always make
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Well, Reimar is right. I have never used file_search, I always make rather heavy use spawn along with the *inx "find" command for such needs. I thought of it only as a programming error, in the sense 'b' can be defined based on 'numfiles'. Anyway, my mistake, names is already an array, heh..

Subject: Re: IDL batch indexing

```
On Mar 11, 10:39 am, Reimar Bauer < R.Ba...@fz-juelich.de> wrote:
> Beverly LaMarr schrieb:
>
>
>
>
>
>> In article < b0bd3b46-ab67-4216-b3ff-dfbd88535...@s37g2000prg.googlegroup s.com >,
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You may want to avoid to use execute otherwise that will block you from using your code with the virtual machine of idl.
cheers
Reimar- Hide quoted text -
- Show quoted text -
```

Thanks people.

I think got a fairly good idea of how to go about it.
Will get back once it works. Seems like structures is the way to go.

Raghu