
Subject: Re: Loop through arrays with different names

Posted by [mattf](#) on Thu, 02 Aug 2007 13:00:27 GMT

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On Aug 2, 8:57 am, mattf <mfe...@earthlink.net> wrote:

> On Aug 1, 8:04 pm, hazel <hazel.ken...@gmail.com> wrote:

>

>

>

>> Hello,

>

>> I have a really simple problem that always happens when I starting

>> trying to use strings..

>

>> I want to loop through a series of arrays, each with a slightly

>> different name (det1arr(n,3), det2arr(n,3), det3arr(n,3)..etc..) and

>> subject each to the same function:

>

>> a quick outline is:

>

>> for j=1,8 do begin

>

>> for i=0, n-1 do begin

>

>> vx=det1arr(i, 0) ; where the 1 is effectively the value of 'j'

>> vy=det1arr(i, 1)

>> vz=det1arr(i, 2)

>

>> result(i,j)=some_function(vx, vy, vz)

>

>> endfor

>

>> So can I do something like: vx=det+j+arr(i,0)? (Only that clearly

>> won't work)? There must be a way? Otherwise I can reload all my

>> different arrays into one array I realise and just loop through that.

>

>> I'm sure it's something painfully simple and for that I apologise, but

>> it is the end of the day (for me anyway),

>

>> Thanks,

>

>> Hazel

>

> A somewhat more flexible approach is to collect the similar variables

> into a struct:

>

> det_struct = {d1:det1arr, d2:det2arr, ...}

>

```
> and then do a for-loop over the struct's fields
>
> n_fields = n_tags(det_struct)
> for ix_struct = 0, n_fields-1 do begin
>   current_field = det_struct.(ix)
>   for ix_var = 0, n do begin
>     -- do whatever here --
>   endfor
> endfor
```

Needless to say, I got the critical line wrong-- it should be

```
current_field = det_struct.(ix_struct)
```
