Subject: Re: Loop through arrays with different names
Posted by mattf on Thu, 02 Aug 2007 12:57:54 GMT
View Forum Message <> Reply to Message

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
```