

---

Subject: Re: indexing over structure tags  
Posted by [tam](#) on Thu, 19 Apr 2001 17:16:38 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Just use the numeric tag syntax for structures.

```
for i=0,n_tags(data)-1 do begin
    data.(i).values = .. some expresion ...
endfor
```

where the (i) indicates use the i'th element of the structure.  
So you don't need to use the names at all.

Regards,  
Tom McGlynn

Randall Skelton wrote:

```
>
> Hello,
>
> Imagine someone has a structure of structures...
>
> ; define the basic structure for each
> sm_struct = {basic_struct, comment: ' ', values: fltarr(nlev)}
>
> ; define the large structure
> data = {big_struct, so4: sm_struct, co2: sm_struct, hcl: sm_struct}
>
> The IDL manual describes how to make an array of the tags in a structure
> using:
>
> ; get the names of the tags
> names = tag_names(data)
>
> so that names = [so4, co2, hcl].
>
> That is all fine. But is it possible to index over the tag names with a
> for-loop?
>
> i.e. for i=0, n_elements(names)-1 do data.names[i].values = i
>          ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
>
> where IDL determines what the appropriate label 'data.name[i].values' is.
>
> Thanks,
> Randall
```

---