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Subject: Re: not sure what to call this request

Posted by [Paul Van Delst\[1\]](#) on Wed, 24 Apr 2002 22:18:39 GMT

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Chad Bahrmann wrote:

```
>
> I am not sure what to call this request:
>
> Is this possible in IDL...I can not seem to make it work...If not any work
> arounds?
>
> IDL> vars=['tsoil_W']
> IDL> data={vars[0]:{attname:STRARR(6)}}
>
> data={vars[0]:{attname:STRARR(6)}}
>      ^
> % Syntax error.
>
> without having to do
> data={tsoil_W:{attname:STRARR(6)}}
> because ultimately I will have a 26 vars that I would like to build
> structures for
```

What exactly do you want to do? Be able to access structures components without referencing the tag name?

Off the top of me head, you could try:

```
IDL> vars = [ 'tsoil_W', 'tsoil_X', 'tsoil_Y', 'tsoil_Z' ]
```

First create the structure with the first component:

```
IDL> data = CREATE_STRUCT( vars[0], {attname:STRARR(6)} )
IDL> HELP, data.tsoil_w, /STRUCT
** Structure <823df34>, 1 tags, length=72, data length=72, refs=2:
  ATTNAME      STRING  Array[6]
```

Now you've got yer structure started, concatenate away.....

```
IDL> FOR i = 1, N_ELEMENTS( vars ) - 1 DO data = CREATE_STRUCT( data, vars[i],
{attname:STRARR(6)} )
IDL> HELP, data, /STRUCT
** Structure <823f38c>, 4 tags, length=288, data length=288, refs=1:
  TSOIL_W      STRUCT  -> <Anonymous> Array[1]
  TSOIL_X      STRUCT  -> <Anonymous> Array[1]
  TSOIL_Y      STRUCT  -> <Anonymous> Array[1]
  TSOIL_Z      STRUCT  -> <Anonymous> Array[1]
```

So now if you want to know what the attributes of, say, tsoil\_X are:

```
IDL> loc = WHERE( vars EQ 'tsoil_X' )
IDL> HELP, data.(loc[0]), /STRUCT
** Structure <823e91c>, 1 tags, length=72, data length=72, refs=2:
  ATTNAME      STRING  Array[6]
```

Pretty cool I reckon. And the above way is probably one of the more brain dead ways of doing it. I mean, it uses concatenation \*and\* a loop..... sheesh :o)

paulv

--  
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Subject: Re: not sure what to call this request  
Posted by [Robert Stockwell](#) on Wed, 24 Apr 2002 23:48:51 GMT  
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```
starr=['yes','you','can'] & result = execute('print,'" + starr[0] + ' ' + starr[1] + ' ' + starr[2] + '"')
```

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>

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