
Subject: Re: Is there any way to change the dimension of a field in a structure?

Posted by [Maarten\[1\]](#) on Tue, 22 Jan 2008 13:47:45 GMT

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On Jan 22, 6:11 am, Hongkai <wang.hong...@gmail.com> wrote:

> This is reasonable because IDL dose not allow to change the dimensions
> of the fields in the structure.

>

> I can solve this problem by redefining another structure S1 with the
> same tag names of S:

> S1 = {Dog:lindgen(3,118), Cat:'cc', Horse:[1,2,4]}

> S = S1

>

> However, the question is, if I only know the tag name of the field
> Dog, and I don't know the tag names of other fields in S, how can I
> change the dimension of Dog?

>

> I've tried this:

> aa = tag_names(S1)

> S = {aa(0):lindgen(3,118), aa(1):S.(1), a a(2):S.(2)}

Although David pointed to pointers as a solution, that does require
extensive changes to the rest of your code. The following dirty code
may be of help.

```
tnames = tag_names(S1)
tmp = create_struct(tnames[0], lindgen(3,118))
for ii=1,n_elements(tnames)-1 do tmp = create_struct(tmp, tnames[ii],
S.(ii))
S = tmp
```

Maarten
