Subject: Delete element from the structure inside another structure Posted by Andrii on Sun, 06 Jul 2014 23:37:35 GMT

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Hello everybody!

I'd like to ask you about one thing which is generally already discussed in other groups.

But my question is a bit more specific.

I have a structure inside another structure like this one:

```
a = \{ f1: 0, f2: \{ x: FltArr(10,10,10), y: 0 \} \}
```

My question is, how can I delete just an array x, or to replace an array x with the array y = FltArr(5,5,5)?

Thank you!

Subject: Re: Delete element from the structure inside another structure Posted by greg.addr on Mon, 07 Jul 2014 08:50:53 GMT

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Hi Andrii,

I think you can't do that directly. You have two choices: either create a new structure in the shape you want, and explicitly copy over the elements you want to retain (struct_assign), or -- probably the better solution -- use a pointer in the first place, so that:

```
a = \{ f1: 0, f2: \{ x: ptr_new(FltArr(10,10,10)), y: 0 \} \}
```

then you could set a.f2.x=ptr_new(FltArr(5,5,5)) and access with

```
print,*(a.f2.x)
```

If you want to be able to change all the values, put the pointers at the lowest level, and recreate the structures each time:

```
a=ptrarr(2)
a[0]=ptr_new(0)
a[1]=ptr_new({ x: ptr_new(FltArr(10,10,10)), y: 0})
or
a[1]=ptr_new({ x: ptr_new(FltArr(5,5,5)), y: 0})
cheers.
```

```
Subject: Re: Delete element from the structure inside another structure Posted by Andrii on Mon, 07 Jul 2014 08:57:08 GMT 
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```

Hi Greg, Thanks a lot. I will try! Cheers, Andrii > Hi Andrii, > > I think you can't do that directly. You have two choices: either create a new structure in the shape you want, and explicitly copy over the elements you want to retain (struct_assign), or -probably the better solution -- use a pointer in the first place, so that: > $a = \{ f1: 0, f2: \{ x: ptr_new(FltArr(10,10,10)), y: 0 \} \}$ > > > then you could set a.f2.x=ptr_new(FltArr(5,5,5)) and access with > > print,*(a.f2.x) > > > > If you want to be able to change all the values, put the pointers at the lowest level, and recreate the structures each time: > > > a=ptrarr(2) > > a[0]=ptr_new(0) a[1]=ptr_new({ x: ptr_new(FltArr(10,10,10)), y: 0})

```
> or
> or
> 
> a[1]=ptr_new({ x: ptr_new(FltArr(5,5,5)), y: 0})
> 
> cheers,
> Greg
```

Subject: Re: Delete element from the structure inside another structure Posted by greg.addr on Mon, 07 Jul 2014 09:02:25 GMT

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```
actually, I should have written:
```

```
a=ptrarr(2)
a[0]=ptr_new(0)
a[1]=ptr_new({ x: FltArr(10,10,10), y: 0})
or
a[1]=ptr_new({ x: FltArr(5,5,5), y: 0})
greg
```

Subject: Re: Delete element from the structure inside another structure Posted by Andrii on Mon, 07 Jul 2014 09:27:01 GMT

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Thanks!

Could you please also write me, how to completely delete a[1]?

If I want to print x, should I do it in the next way: print,*a[1].x?

```
actually, I should have written:>
```

Subject: Re: Delete element from the structure inside another structure Posted by Andrii on Mon, 07 Jul 2014 09:38:55 GMT

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Thanks!

Could you please also write me, how to completely delete a[1].x?

As I understand, in order to delete a[1] I have to do it in the next way: ptr_free, a[1].

If I want to print x, should I do it in the next way: print,*(a[1].x)?

Subject: Re: Delete element from the structure inside another structure Posted by Fabzi on Mon, 07 Jul 2014 09:49:15 GMT

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If you have IDL8+ you can use dictionnaries instead of structures:

