Subject: Re: Combing structures Posted by Foldy Lajos on Mon, 07 Jun 2010 15:29:39 GMT View Forum Message <> Reply to Message

On Mon, 7 Jun 2010, Michael Williams wrote:

```
> Hi,
> I have two structures. Each contains a unique set of tags whose values
 are floats or arrays of floats. E.g.
>
> xx = findgen(5)
> y = 1.0
> str1 = {one: xx, two:y}
> xx = findgen(3)
> v = -1.0
> str2 = {three: xx, four: y}
  I want to merge them into one flat structure of their elements. At the
  moment I am doing this manually:
>
  str = {one:str1.one, two:str1.two, three:str2.three, four:str2.four}
>
> This obviously becomes unwieldy and error-prone when my structures
> have several dozen tags. Is there a way of automating the merge step?
> I am happy to assume the tag names are unique (i.e. there is no danger
> of a collision).
>
> I have played around with the tag_names function, but I can't see a
> way of using this without using the EVALUATE function, which is
> generally a bad idea.
 -- Mike
>
str=create_struct(str1, str2)
regards,
lajos
```

Subject: Re: Combing structures
Posted by Brian Daniel on Mon, 07 Jun 2010 15:29:54 GMT
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On Jun 7, 11:01 am, Michael Williams <mjwilli...@gmail.com> wrote: > Hi,

```
>
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> of a collision).
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> way of using this without using the EVALUATE function, which is
> generally a bad idea.
> -- Mike
I believe Create Struct will do this.
IDL > xx = findgen(5)
IDL > y = 1.0
IDL > str1 = \{one: xx, two:y\}
IDL > xx = findgen(3)
IDL> y = -1.0
IDL> str2 = {three: xx, four: y}
IDL> str3 = create_struct(str1,str2,NAME='str3')
IDL> help,str3,/struct
** Structure STR3, 4 tags, length=40, data length=40:
              FLOAT
 ONE
                         Array[5]
 TWO
               FLOAT
                             1.00000
 THREE
                FLOAT
                          Array[3]
               FLOAT
                             -1.00000
 FOUR
```

I don't think you need the NAME keyword, but i did it for completeness.

Regards,

```
Subject: Re: Combing structures
```

Posted by Michael Williams on Mon, 07 Jun 2010 15:39:32 GMT

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Wow, that was quick (and I feel pretty silly!). Thanks guys!

-- Mike

```
Subject: Re: Combing structures
Posted by Steve[5] on Mon, 07 Jun 2010 16:37:15 GMT
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```

```
Michael Williams wrote:
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> -- Mike
```

Try...

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