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Subject: Re: Fun Writing Books

Posted by [m\\_schellens](#) on Fri, 09 Dec 2005 05:27:51 GMT

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Yes, some quiet improvements.

The structures nowadays (at least till 6.0) only need the same patterns, even the tag names can differ (the one of the first struct are taken):

```
IDL> s={n:'s',i:1}
```

```
IDL> t={t:',ii:2}
```

```
IDL> help,/STRUCT,[s,t]
```

```
** Structure <92b911c>, 2 tags, length=16, data length=14, refs=2:
```

```
  N          STRING  's'
```

```
  I          INT      1
```

```
IDL> help,/STRUCT,[t,s]
```

```
** Structure <92b9224>, 2 tags, length=16, data length=14, refs=2:
```

```
  T          STRING  ''
```

```
  II         INT      2
```

Ah, did I mention that GDL behaves the same way :-)

---

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Subject: Re: Fun Writing Books

Posted by [R.Bauer](#) on Sun, 11 Dec 2005 08:07:37 GMT

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David Fanning wrote:

> Folks,

>

> You know what's fun about writing books? You have so  
> many opportunities to embarrass yourself. :-)

>

> When did this get fixed?

>

> IDL> a = {Name:'Larry', Age:46}

> IDL> b = {Name:'JoeBob', Age:39}

> IDL> c = [a, b]

>

> That, my friends, is \*suppose\* to generate an error.

>

> [http://www.dfanning.com/tips/concatenate\\_structs.html](http://www.dfanning.com/tips/concatenate_structs.html)

>

> Now, I've got to check every single piece of code I ever wrote  
> to be sure I'm not missing something else. :-(

>

> Cheers,

>

> David

>

Hi David,

I believe this wasn't restricted. Both are anonymous structures not named!

There was a restriction with named structures and I think you like to talk about this one. A rule change and when will we get this fixed ....

```
IDL> a=make_array(5,2,1)
IDL> help,a,reform(a,5,2,1)
A          FLOAT    = Array[5, 2]
<Expression>  FLOAT    = Array[5, 2, 1]
```

```
IDL> a=ptr_new(reform(a,5,2,1))
IDL> help,*a
<PtrHeapVar2>  FLOAT    = Array[5, 2, 1]
```

I like to see the reform output always

cheers  
Reimar

---

Subject: Re: Fun Writing Books  
Posted by [Mark Hadfield](#) on Mon, 12 Dec 2005 00:57:56 GMT  
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---

Reimar Bauer wrote:

> I believe this wasn't restricted. Both are anonymous structures not named!

Concatenation of anonymous structures in the way David describes definitely used to be forbidden. Each anonymous structure has an internally generated identifier and IDL used to insist that these match, which effectively meant the only way to create an array of anonymous structures was replication. This restriction was removed a few versions back (don't recall when) and IDL now tries to do the sensible thing.

--

Mark Hadfield        "Kei puwaha te tai nei, Hoea tahi tatou"  
m.hadfield@niwa.co.nz  
National Institute for Water and Atmospheric Research (NIWA)

---

---

Subject: Re: Fun Writing Books  
Posted by [David Fanning](#) on Mon, 12 Dec 2005 02:04:18 GMT  
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---

Mark Hadfield writes:

- > Concatenation of anonymous structures in the way David describes
- > definitely used to be forbidden. Each anonymous structure has an
- > internally generated identifier and IDL used to insist that these match,
- > which effectively meant the only way to create an array of anonymous
- > structures was replication. This restriction was removed a few versions
- > back (don't recall when) and IDL now tries to do the sensible thing.

I think everyone should be made to write a book occasionally.  
There is no end to the things I am learning (or, in some cases,  
re-learning). But, honestly, this muse is brutal. She got me  
up at 3:45 AM this morning to work on the pointer section  
of the data chapter. :-(

Cheers,

David

P.S. Let's just say I really liked it a lot better when she  
just refused to work with me on my tennis game. At least I  
got a little bit of sleep from time to time.

--

David Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: Fun Writing Books  
Posted by [R.Bauer](#) on Wed, 14 Dec 2005 10:33:57 GMT  
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---

Mark Hadfield wrote:

- > Reimar Bauer wrote:
- >
- >> I believe this wasn't restricted. Both are anonymous structures not
- >> named!
- >
- >
- > Concatenation of anonymous structures in the way David describes
- > definitely used to be forbidden. Each anonymous structure has an
- > internally generated identifier and IDL used to insist that these match,
- > which effectively meant the only way to create an array of anonymous

> structures was replication. This restriction was removed a few versions  
> back (don't recall when) and IDL now tries to do the sensible thing.  
>  
>

But then it was always possible. I have used this often in the past  
versions too

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)  
Forschungszentrum Juelich  
email: R.Bauer@fz-juelich.de

-----  
a IDL library at ForschungsZentrum Juelich  
[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_lib\\_intro.html](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html)  
=====

---

Subject: Re: Fun Writing Books  
Posted by [Foldy Lajos](#) on Wed, 14 Dec 2005 11:58:31 GMT  
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---

Hi,

just a little experiment:

```
IDL> print, !version
{ sparc sunos unix 5.3 Nov 11 1999}
IDL>
IDL> s={n:'s',i:1} & t={t:',ii:2} & help,[s,t]
% Conflicting data structures: T,concatenation.
% Execution halted at: $MAIN$
IDL>
```

regards,  
lajos

On Wed, 14 Dec 2005, Reimar Bauer wrote:

> Mark Hadfield wrote:  
>> Reimar Bauer wrote:  
>>

```
>>> I believe this wasn't restricted. Both are anonymous structures not
>>> named!
>>
>>
>> Concatenation of anonymous structures in the way David describes
>> definitely used to be forbidden. Each anonymous structure has an
>> internally generated identifier and IDL used to insist that these match,
>> which effectively meant the only way to create an array of anonymous
>> structures was replication. This restriction was removed a few versions
>> back (don't recall when) and IDL now tries to do the sensible thing.
>>
>>
>
> But then it was always possible. I have used this often in the past
> versions too
>
> Reimar
>
>
> --
> Reimar Bauer
>
> Institut fuer Stratosphaerische Chemie (ICG-I)
> Forschungszentrum Juelich
> email: R.Bauer@fz-juelich.de
> -----
> a IDL library at Forschungszentrum Juelich
> http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html
> =====
>
```

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---

Subject: Re: Fun Writing Books  
Posted by [R.Bauer](#) on Wed, 14 Dec 2005 12:21:27 GMT  
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---

Fü½LDY Lajos wrote:

```
> Hi,
>
> just a little experiment:
>
> IDL> print, !version
> { sparc sunos unix 5.3 Nov 11 1999}
> IDL>
> IDL> s={n:'s',i:1} & t={t:',ii:2} & help,[s,t]
> % Conflicting data structures: T,concatenation.
> % Execution halted at: $MAIN$
> IDL>
```

>  
> regards,  
> lajos

This must go wrong and this is different about the one we are speaking here.

```
IDL> a = {Name:'Larry', Age:46}  
IDL> b = {Name:'JoeBob', Age:39}  
IDL> c = [a, b]
```

Please show your results to this here.

cheers

Reimar

```
>  
>  
> On Wed, 14 Dec 2005, Reimar Bauer wrote:  
>  
>  
>> Mark Hadfield wrote:  
>>  
>>> Reimar Bauer wrote:  
>>>  
>>>  
>>>> I believe this wasn't restricted. Both are anonymous structures not  
>>>> named!  
>>>  
>>>  
>>> Concatenation of anonymous structures in the way David describes  
>>> definitely used to be forbidden. Each anonymous structure has an  
>>> internally generated identifier and IDL used to insist that these match,  
>>> which effectively meant the only way to create an array of anonymous  
>>> structures was replication. This restriction was removed a few versions  
>>> back (don't recall when) and IDL now tries to do the sensible thing.  
>>>  
>>>  
>>  
>> But then it was always possible. I have used this often in the past  
>> versions too  
>>
```

```
>> Reimar
>>
>>
>> --
>> Reimar Bauer
>>
>> Institut fuer Stratosphaerische Chemie (ICG-I)
>> Forschungszentrum Juelich
>> email: R.Bauer@fz-juelich.de
>> -----
>>     a IDL library at ForschungsZentrum Juelich
>> http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
>> =====
>>
```

--  
Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)  
Forschungszentrum Juelich  
email: R.Bauer@fz-juelich.de

-----  
a IDL library at ForschungsZentrum Juelich  
http://www.fz-juelich.de/icg/icg-i/idl\_icglib/idl\_lib\_intro. html  
=====

---

Subject: Re: Fun Writing Books  
Posted by [Foldy Lajos](#) on Wed, 14 Dec 2005 12:31:54 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

OK, here you are:

```
IDL> print, !version
{ sparc sunos unix 5.3 Nov 11 1999}
IDL>
IDL> a = {Name:'Larry', Age:46}
IDL> b = {Name:'JoeBob', Age:39}
IDL> c = [a, b]
% Conflicting data structures: B,concatenation.
% Execution halted at: $MAIN$
IDL>
```

regards,  
lajos

On Wed, 14 Dec 2005, Reimar Bauer wrote:

> FÖLDY Lajos wrote:

>> Hi,

>>

>> just a little experiment:

>>

>> IDL> print, !version

>> { sparc sunos unix 5.3 Nov 11 1999}

>> IDL>

>> IDL> s={n:'s',i:1} & t={t:',ii:2} & help,[s,t]

>> % Conflicting data structures: T,concatenation.

>> % Execution halted at: \$MAIN\$

>> IDL>

>>

>> regards,

>> lajos

>

>

> This must go wrong and this is different about the one we are speaking here.

>

>

>

>

>

> IDL> a = {Name:'Larry', Age:46}

> IDL> b = {Name:'JoeBob', Age:39}

> IDL> c = [a, b]

>

>

> Please show your results to this here.

>

> cheers

>

> Reimar

>

>

>>

>>

>> On Wed, 14 Dec 2005, Reimar Bauer wrote:

>>

>>

>>> Mark Hadfield wrote:

>>>

>>>> Reimar Bauer wrote:

>>>>

>>>>

>>>> >I believe this wasn't restricted. Both are anonymous structures not

>>>> >named!



```
>>>>
>>>>
>>>> Concatenation of anonymous structures in the way David describes
>>>> definitely used to be forbidden. Each anonymous structure has an
>>>> internally generated identifier and IDL used to insist that these match,
>>>> which effectively meant the only way to create an array of anonymous
>>>> structures was replication. This restriction was removed a few versions
>>>> back (don't recall when) and IDL now tries to do the sensible thing.
>>>>
>>>>
>>>
>>> But then it was always possible. I have used this often in the past
>>> versions too
>>>
>>> Reimar
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>>> Reimar Bauer
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>>>     a IDL library at ForschungsZentrum Juelich
>>> http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
>>> =====
>>>
>
>
> --
> Reimar Bauer
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> http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
> =====
>
>
```

---

---

Subject: Re: Fun Writing Books  
Posted by [Paolo Grigis](#) on Wed, 14 Dec 2005 13:14:21 GMT  
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---

Yes, the change in behaviour is documented in the IDL 5.4

"what's new", on section "Relaxed Rules for Combining Structures".

Ciao,  
Paolo

```
> OK, here you are:
>
> IDL> print, !version
> { sparc sunos unix 5.3 Nov 11 1999}
> IDL>
> IDL> a = {Name:'Larry', Age:46}
> IDL> b = {Name:'JoeBob', Age:39}
> IDL> c = [a, b]
> % Conflicting data structures: B,concatenation.
> % Execution halted at: $MAIN$
> IDL>
>
> regards,
> lajos

>>>> >
>>>> >
>>>> >>I believe this wasn't restricted. Both are anonymous structures not
>>>> >>named!
>>>> >
>>>> >
>>>> >Concatenation of anonymous structures in the way David describes
>>>> >definitely used to be forbidden. Each anonymous structure has an
>>>> >internally generated identifier and IDL used to insist that these match,
>>>> >which effectively meant the only way to create an array of anonymous
>>>> >structures was replication. This restriction was removed a few versions
>>>> >back (don't recall when) and IDL now tries to do the sensible thing.
>>>> >
>>>> >
>>>> >
>>>> >But then it was always possible. I have used this often in the past
>>>> >versions too
>>>> >
>>>> >Reimar
>>>> >
>>>> >
```

---

---

Subject: Re: Fun Writing Books  
Posted by [Emmanuel Christophe](#) on Wed, 14 Dec 2005 17:14:17 GMT

Reimar Bauer a écrit :

> FÖLDY Lajos wrote:

>

>> Hi,

>>

>> just a little experiment:

>>

>> IDL> print, !version

>> { sparc sunos unix 5.3 Nov 11 1999}

>> IDL>

>> IDL> s={n:'s',i:1} & t={t:',ii:2} & help,[s,t]

>> % Conflicting data structures: T,concatenation.

>> % Execution halted at: \$MAIN\$

>> IDL>

>>

>> regards,

>> lajos

>

>

>

> This must go wrong and this is different about the one we are speaking here.

>

Mine doesn't go wrong:

IDL> print, !version

{ x86 linux unix linux 6.2 Jun 20 2005 32 64}

IDL> s={n:'s',i:1} & t={t:',ii:2} & help,[s,t]

<Expression> STRUCT = -> <Anonymous> Array[2]

IDL>

Emmanuel

>

>

>

> IDL> a = {Name:'Larry', Age:46}

> IDL> b = {Name:'JoeBob', Age:39}

> IDL> c = [a, b]

>

>

> Please show your results to this here.

>

> cheers

>

> Reimar

```
>
>
>
>>
>> On Wed, 14 Dec 2005, Reimar Bauer wrote:
>>
>>
>>
>>> Mark Hadfield wrote:
>>>
>>>
>>>> Reimar Bauer wrote:
>>>>
>>>>
>>>>
>>>> >I believe this wasn't restricted. Both are anonymous structures not
>>>> >named!
>>>>
>>>>
>>>> Concatenation of anonymous structures in the way David describes
>>>> definitely used to be forbidden. Each anonymous structure has an
>>>> internally generated identifier and IDL used to insist that these match,
>>>> which effectively meant the only way to create an array of anonymous
>>>> structures was replication. This restriction was removed a few versions
>>>> back (don't recall when) and IDL now tries to do the sensible thing.
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>>>>
>>> But then it was always possible. I have used this often in the past
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>>>
>>> Reimar
>>>
>>> --
>>> Reimar Bauer
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>>> Institut fuer Stratosphaerische Chemie (ICG-I)
>>> Forschungszentrum Juelich
>>> email: R.Bauer@fz-juelich.de
>>> -----
>>> a IDL library at Forschungszentrum Juelich
>>> http://www.fz-juelich.de/icg/icg-i/idl\_icglib/idl\_lib\_intro.html
>>> =====
>>>
>
>
>
```

---