## Subject: structure access using strings for tag-names Posted by Thomas Pfaff on Mon, 11 Apr 2005 12:08:14 GMT View Forum Message <> Reply to Message

Hello everyone,

I would like to ask your opinion about the following.

Using the function CREATE\_STRUCT it is possible to create a struct with tag names defined by strings. This way it is possible to create structs without knowing their names at compile time.

However even if I don't have to know the tag names when creating a struct, it seems that I still have to know them, when I want to access the data within that struct, because I couldn't find any procedure or function for this purpose and struct.'tag\_name' quite naturally gives a syntax error.

Any ideas why this isn't implemented, or why it isn't necessary to have it (would be nice to set up simple associative containers, wouldn't it)?

Best regards,

Thomas

Subject: Re: structure access using strings for tag-names Posted by Antonio Santiago on Mon, 11 Apr 2005 12:15:57 GMT View Forum Message <> Reply to Message

## Thomas Pfaff wrote:

- > Hello everyone,
- > I would like to ask your opinion about the following.
- > Using the function CREATE\_STRUCT it is possible to create a struct with
- > tag names defined by strings. This way it is possible to create structs
- > without knowing their names at compile time.
- > However even if I don't have to know the tag names when creating a
- > struct, it seems that I still have to know them, when I want to access
- > the data within that struct, because I couldn't find any procedure or
- > function for this purpose and struct.'tag\_name' quite naturally gives a
- > syntax error.

Not necessarilty. You can use the notation:

struct\_name.(filed\_num) to acces struct fields without knowing its names.

Bye, Antonio.

>

- > Any ideas why this isn't implemented, or why it isn't necessary to have
- > it (would be nice to set up simple associative containers, wouldn't it)?

> \_

> Best regards,

*>* 

> Thomas

Subject: Re: structure access using strings for tag-names Posted by Paolo Grigis on Mon, 11 Apr 2005 12:31:57 GMT View Forum Message <> Reply to Message

Try this out:

;get list of tag names tagnamelist=tag\_names(!P)

;find which tag has the name "MULTI" tagindex=where(tagnamelist EQ 'MULTI')

;access the structure print,!p.(tagindex)

You can use struct.(0), struct.(1) etc. to access the values in the first, second,... tag.

--Paolo

Thomas Pfaff wrote:

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>

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Best regards,
>

Subject: Re: structure access using strings for tag-names Posted by R.Bauer on Wed, 13 Apr 2005 09:29:05 GMT View Forum Message <> Reply to Message

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Thomas Pfaff wrote:
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> Thomas

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>

>

>

>

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- > syntax error.
- > Any ideas why this isn't implemented, or why it isn't necessary to have
- > it (would be nice to set up simple associative containers, wouldn't it)?
- > Best regards,

> Thomas

You could use the routine tag\_position from our library.

```
test=create_struct('A',1,'B',2) print, test.(tag_position(test,'A'))
```

http://www.fz-juelich.de/icg/icg-i/idl\_icglib/idl\_source/idl \_html/dbase/tag\_position\_dbase.pro.html

cheers Reimar

--

Reimar Bauer

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

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

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