
Subject: Re: redout of "name", "type" and "value" tags into a string

Posted by [ben.bighair](#) on Mon, 21 May 2007 14:06:20 GMT

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On May 21, 5:03 am, BavarianMike86 <jo.mich...@gmx.de> wrote:

> Hello!
> I hope you can help me:
>
> I have a structure. I can redout and print the structure tags using
> the TAG_NAMES function.
> But I also want to readout the "Type" and "Value" tags into a string
> array.
> How can I do that?
>

Hi,

Getting the type names isn't too hard. You could wrap the follwoing into a function.

```
IDL> n = n_tags(!X)
IDL> s = STRARR(n)
IDL> for i =0,n-1 do s[i]=SIZE(!X.(i),/TNAME)
IDL> print, s
```

But getting the value is not straight forward as a structure field could be quite complex, like a pointer, object or another structure. Besides, that is really what the "." operator does for you, it returns the value of the field. Like...

```
print, !X.range
```

Ben

Subject: Re: redout of "name", "type" and "value" tags into a string

Posted by [Vince Hradil](#) on Mon, 21 May 2007 14:07:58 GMT

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On May 21, 4:03 am, BavarianMike86 <jo.mich...@gmx.de> wrote:

> Hello!
> I hope you can help me:
>
> I have a structure. I can redout and print the structure tags using
> the TAG_NAMES function.
> But I also want to readout the "Type" and "Value" tags into a string
> array.
> How can I do that?

>
> Greetings from Bavaria,
> Michael

Here's a quickie:

Loop through the tags and use `xxxx.tag_name[i]` and use `size(xxxx.tag_name[i],/type)`.

Subject: Re: redout of "name", "type" and "value" tags into a string
Posted by [BavarianMike86](#) on Mon, 21 May 2007 15:55:25 GMT

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Thank you for your help, Ben and Vince!

It is impractical if there's no easy way to read in the "Value" tags.
But I discovered that also the HELP-function shows me all the
information I need.
Is it possible to copy the HELP-function generated text on the
logscreen into a text array?

This text array is necessary for me because I want to build a widget
which shows exactly this information.

Greetings,
Michael

Subject: Re: redout of "name", "type" and "value" tags into a string
Posted by [David Fanning](#) on Mon, 21 May 2007 16:16:20 GMT

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BavarianMike86 writes:

> Is it possible to copy the HELP-function generated text on the
> logscreen into a text array?
>
> This text array is necessary for me because I want to build a widget
> which shows exactly this information.

Try the OUTPUT keyword to HELP.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: redout of "name", "type" and "value" tags into a string
Posted by [Foldy Lajos](#) on Mon, 21 May 2007 16:16:21 GMT
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On Mon, 21 May 2007, BavarianMike86 wrote:

> Thank you for your help, Ben and Vince!
>
> It is impractical if there's no easy way to read in the "Value" tags.
> But I discovered that also the HELP-function shows me all the
> information I need.
> Is it possible to copy the HELP-function generated text on the
> logscreen into a text array?
>
> This text array is necessary for me because I want to build a widget
> which shows exactly this information.
>
> Greetings,
> Michael
>
>

HELP, OUTPUT=out, ...

regards,
lajos

Subject: Re: redout of "name", "type" and "value" tags into a string
Posted by [Vince Hradil](#) on Mon, 21 May 2007 18:23:33 GMT
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On May 21, 10:55 am, BavarianMike86 <jo.mich...@gmx.de> wrote:

> Thank you for your help, Ben and Vince!
>
> It is impractical if there's no easy way to read in the "Value" tags.
> But I discovered that also the HELP-function shows me all the
> information I need.
> Is it possible to copy the HELP-function generated text on the
> logscreen into a text array?
>

> This text array is necessary for me because I want to build a widget
> which shows exactly this information.
>
> Greetings,
> Michael

Impractical? That I don't understand...

I just threw this together in about 45 seconds. I think it only took that long because it's Monday:

```
pro help_str, struct
```

```
tab = string(9b)
```

```
if size(struct,/type) ne 8 then return
```

```
tnames = tag_names(struct)
```

```
for i=0, n_tags(struct)-1 do begin
```

```
  vnow = struct.(i)
```

```
  printf, -1, tnames[i] + tab + size(vnow,/tname) + tab + strtrim(vnow,  
2)
```

```
endfor
```

```
return
```

```
end
```

Cheers,
Vince

Subject: Re: redout of "name", "type" and "value" tags into a string

Posted by [BavarianMike86](#) on Wed, 23 May 2007 15:33:41 GMT

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@ Vince:

"impractical" ... I think this word caused misunderstanding due to language barrier ;-) I just wanted to say that this method is unhandy for an IDL novice like me.

@ Lajos and David:

Thank you for your lead. This method works excellent.

By the way, David. We use your libraries here at office. Thanks for your work. It makes many things much easier!

Greetings from Bavaria,
Michael
