
Subject: Re: EDG: Using IDL_MakeTempStruct() vs. IDL_ImportArray()

Posted by [Jim Pendleton](#) on Wed, 11 Feb 2015 00:30:09 GMT

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On Tuesday, February 10, 2015 at 3:30:50 PM UTC-7, Chris Torrence wrote:

> Hi Peter,

>
> Here's some sample code from the TIFF module, where it is creating the "info" structure:

```
> static      IDL_STRUCT_TAG_DEF s_tags[] = {  
>   { "CHANNELS", 0, (void *) IDL_TYP_LONG },  
>   { "DIMENSIONS", dim_dims, (void *) IDL_TYP_LONG },  
>   { "HAS_PALETTE", 0, (void *) IDL_TYP_INT },  
>   { "IMAGE_INDEX", 0, (void *) IDL_TYP_LONG },  
>   { "NUM_IMAGES", 0, (void *) IDL_TYP_LONG },  
>   { "PIXEL_TYPE", 0, (void *) IDL_TYP_INT },  
>   { "TYPE", 0, (void *) IDL_TYP_STRING },  
>   { "BITS_PER_SAMPLE", 0, (void *) IDL_TYP_LONG },  
>   { "ORIENTATION", 0, (void *) IDL_TYP_LONG },  
>   { "PLANAR_CONFIG", 0, (void *) IDL_TYP_LONG },  
>   { "PHOTOMETRIC", 0, (void *) IDL_TYP_LONG },  
>   { "POSITION", dim_dims, (void *) IDL_TYP_FLOAT },  
>   { "RESOLUTION", dim_dims, (void *) IDL_TYP_FLOAT },  
>   { "UNITS", 0, (void *) IDL_TYP_LONG },  
>   { "TILE_SIZE", dim_dims, (void *) IDL_TYP_LONG },  
>   { "DESCRIPTION", 0, (void *) IDL_TYP_STRING },  
>   { "DOCUMENT_NAME", 0, (void *) IDL_TYP_STRING },  
>   { "DATE_TIME", 0, (void *) IDL_TYP_STRING },  
>   { "VERSION", 0, (void *) IDL_TYP_LONG },  
>   { 0 }  
> };  
>  
> typedef struct {  
>   IDL_LONG  channels;  
>   IDL_LONG  dimensions[2];  
>   IDL_INT   has_palette;  
>   IDL_LONG  image_index;  
>   IDL_LONG  num_images;  
>   IDL_INT   pixel_type;  
>   IDL_STRING type_str;  
>   IDL_LONG  bits_per_sample;  
>   IDL_LONG  orientation;  
>   IDL_LONG  planar_config;  
>   IDL_LONG  photometric;  
>   float     position[2];  
>   float     resolution[2];  
>   IDL_LONG  units;  
>   IDL_LONG  tile_size[2];
```

```
> IDL_STRING description;
> IDL_STRING document_name;
> IDL_STRING date_time;
> IDL_LONG version;
> } ret_struct;
>
>     s_def = IDL_MakeStruct(0, s_tags); /* create the struct */
>     ret = (ret_struct *)
>         IDL_MakeTempStructVector(s_def, 1, &vpTmp,IDL_FALSE);
>
>
> I'm not sure how much of this API is actually included in "idl_export.h", so you might be
> unsuccessful at getting this to compile. But hopefully it will give you a start!
>
> Cheers,
> Chris
```

Peter,

It looks like you just need to ensure that the tag names in your C IDL_STRUCT_TAG_DEF are uppercase only. The interpreter isn't going to handle the mixed case that you're using presently.

Jim P.
