
Subject: Re: how to pass array from dll into IDL?
Posted by [Randall Frank](#) on Sat, 07 Jul 2001 00:04:20 GMT
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Nigel,
Make sure you supply a free_cb function in your example.

The line:

```
array = IDL_ImportArray(1, dims, IDL_TYP_BYTE, data, NULL, NULL);
```

should read something like:

```
array = IDL_ImportArray(1, dims, IDL_TYP_BYTE, data,  
(IDL_ARRAY_FREE_CB)free, NULL);
```

to avoid a memory leak in your example.

FWIW.

```
>  
> data.c:  
>  
> #include <stdlib.h>  
> #include <stdio.h>  
> #include <unistd.h>  
> #include <errno.h>  
>  
> #include "export.h"  
>  
> #define DATALEN 250  
>  
> IDL_VPTR get_data(int argc, IDL_VPTR argv[], char *argk)  
> {  
>  
>     IDL_VPTR array;  
>     IDL_LONG dims[IDL_MAX_ARRAY_DIM];  
>  
>     IDL_VPTR result;  
>  
>     unsigned char *data;  
>     int i;  
>  
>     /*  
>      * get the data  
>      */  
>     data = malloc(DATALEN);
```

```

> if ( data == NULL )
>     IDL_MESSAGE( IDL_M_NAMED_GENERIC, IDL_MSG_RET, strerror(errno));
>
> for ( i = 0; i < DATALEN; i++ )
>     data[i] = i + 1;
>
> /*
>  * create the return data array
>  */
> dims[0] = DATALEN;
>
> array = IDL_ImportArray(1, dims, IDL_TYP_BYTE, data, NULL, NULL);
>
> return array;
> }
>
> int IDL_Load(void) {
>
>     static IDL_SYSFUN_DEF function_addr[] = {
>         { get_data, "GET_DATA", 0, 0, 0},
>     };
>
>     return IDL_AddSystemRoutine(function_addr, TRUE, 1);
> }
>
> data.dlm:
>
> MODULE data
> DESCRIPTION Create a simple data array.
> VERSION 1.0
> SOURCE Nigel Wade, Leicester University.
> BUILD_DATE July 6, 2001
> FUNCTION      get_data          0      0

```

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rjf.

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