Subject: Returning a string array from a DLM Posted by Ed Wright on Thu, 12 Dec 2002 23:44:45 GMT

View Forum Message <> Reply to Message

Question for DLM experts:

I wrote a DLM for a C routine that returns an array of strings. The first version of the DLM code has the return array declared as char item[X][Y]. After the C call, I created a temp array of strings via a IDL_MakeTempArray call, then looped over each string in the array copying the string to the array created in IDL_MakeTempArray via an IDL_StrStore call.

It worked...

So being quite industrious, I decided it a good idea to dynamically allocate the memory required for the string array. After a few hours of aggravation and a phone call to a friend who reminded me a pointer pointing to nothing might cause some problems, I have a DLM than can dynamically allocate the needed space for a string array then pass that array to my C routine as an argument for return.

Now the problem. On return to the IDL interpreter, I experience a plethora of malloc errors:

Given a script making two calls to the DLM, call format:

cspice_lparse, string_with_separator, separator_string, item

Item should return as an array of strings.

My test output -

IDL> xtspice_idl

Start tests

% Loaded DLM: COMBINE.

Start of module: st01 idl

In C routine: String: a String: b String: c

In IDL, array = abc

In C routine:

String: a String: String: c

*** malloc[3990]: error for object 0x29cee0: Incorrect check sum for freed object - object was probably modified after beeing freed; break at

szone_error Segmentation fault

Any ideas as to my error? I do free the allocated array as the last step.

As always, Ed Wright