Subject: Re: Hard crash
Posted by Jim Pendleton on Tue, 10 Feb 2015 03:16:26 GMT

On Monday, February 9, 2015 at 7:18:13 PM UTC-7, Dick Jackson wrote:
> Heinz Stege wrote, On 2015-02-02, 1:40pm:
>> On Fri, 30 Jan 2015 17:24:33 -0800 (PST), Jim P wrote:
>>
>>> The key to understanding the problem is that the IDL compiler *must* restore the hash.sav at
compile time if a structure tag is defined as LIST(), HASH(), etc. At that point, all is lost* with
respect to IDL "forgetting" about the compiled definitions.
>>>
>> Aah, that brings some light into the darkness. IDL 8.4 restores the
>> hash.sav file when compiling a routine with LIST() as a structure tag?
>> I didn't know this, since I'm still working with Version 8.0.1.* My
>> version is different. It does _not_ restore hash.sav or list.sav when
>> compiling a routine with a LIST() tag in the class structure
>> definition.
>>
>> Do you think, that it may be interesting for the news group, why this
>> change was done?
>>
>> Cheers, Heinz
>>
>> * My company does not have the money to upgrade. :-(
>
> I think I was caught by this issue, hoping to compile a .sav in 8.4 for a client to run in 8.3. Some
problems were
> relieved by:
>
> 1. In my project's Build, replacing the standard RESOLVE_ALL with post-process command:
>   RESOLVE_ALL, skip=['list','hash','orderedhash']
>
> 2. Avoiding the use of myList = List(myArray, /EXTRACT)
>
> But I'm seeing another problem I can't seem to avoid, where I'm adding an item to a list, and I
get:
>   IDL_CONTAINER::ADD: Object reference type required in this context: INDEXITEM.
>   (INDEXITEM was my variable that I was Adding to the list)
>
> I confirm that neither IDL 8.3 nor 8.4 actually require this of a List() object.
>
> I tried adding 'idl_container' to the "skip" list in RESOLVE_ALL, to no avail.
>
> Any suggestions of how to get around this?
>
> --
>

> Cheers,
> -Dick
>
> Dick Jackson Software Consulting Inc.
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Hi Dick,

Okay, this is a tricky one. The bottom line is you'd probably be better off compiling your app in 8.3, if you can. We don't really have forward compatibility in IDL, though you might get lucky on occasion.

There was considerable work performed in 8.4 to make it more efficient so some code formerly in .pro was moved down to C.

Compare and contrast the output from routine_info('list::add', /source) between the two versions. You'll see that in 8.4 it "doesn't exist". Instead search through the output from routine_info(/system).

If you perform a RESTORE, /VERBOSE on your compiled 8.4 file in 8.3, are you sure there are no references to the routines from the lib\datatypes .sav files? If there are references in your .sav file, then there's probably a stray list() or hash() in one or more routines, without a needed compile_opt idl2 (or strictarr).

Jim P.
"I presently work for Exelis"