
Subject: Re: A simple DLM question

Posted by [Xin Tao](#) on Mon, 27 Aug 2012 22:04:43 GMT

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Thanks Jimmy. That indeed solved my problem. It was so confusing to me, because I found from the External Development Guide that IDL_DELTMP should check it first. :)

On Monday, August 27, 2012 3:48:27 PM UTC-5, jimmylee...@gmail.com wrote:

> On Monday, August 27, 2012 11:13:57 AM UTC-6, Xin Tao wrote:

>

>> Hi,

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>> I'm having trouble figuring out the problem of the following DLM code:

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>

>> /* The c routine */

>

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>

>> void simple(int argc, IDL_VPTR argv[])

>

>>

>

>> {

>

>>

>

>> IDL_VPTR v;

>

>>

>

>>

>

```

>>
>
>>  v = IDL_BasicTypeConversion(1, &argv[0], IDL_TYP_DOUBLE);
>
>>
>
>>
>
>>
>
>>  IDL_DELTMP(v);
>
>>
>
>> }
>
>>
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>>
>
>>
>
>> This routine just takes its input and convert it to double. After converting it to a DLM, however,
I seem to see strange results.
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>
>> IDL> simple, 1.0d
>
>>
>
>> % Loaded DLM: TESTMODULE.
>
>>
>
>> IDL> simple, -1.0d
>
>>
>
>> Bus error
>
>>
>
>>

```

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>>
>
>> That is: if I give it 1.0d as input, then the code is fine. However, if I use -1.0d, then there is a BUS error, presumably from IDL_DELTMP(v). I really don't understand why this is the case. Isn't IDL_DELTMP supposed to decide first whether v is a temporary variable or not? If I remove IDL_DELTMP, of course, I'll frequently get the annoying warning message "% Temporary variables are still checked out - cleaning up...".
>
>>
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>>
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>>
>
>> Please give me some help. Thanks.
>
>
>
> Try this:
>
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>
> if (v != argv[0]) IDL_DELTMP(v);
>
>
>
> That is, no conversion was necessary.
>
>
>
> The macro (in idl_export.h, if you're interested) doesn't do extensive checking, and you should only free variables that are temps, not expressions or constants.
