Subject: Re: Saved objects.
Posted by seanr on Wed, 09 Sep 1998 07:00:00 GMT
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> How about something like this:
>
> thisClass = Obj_Class(self)
> Resolve_Routine, thisClass + '_define'
>
> I haven't tested this, but don't see any reason it wouldn't work.
> Resolve_Routine is the way IDL procedures and functions can
> be compiled from *within* other procedures and functions.
>
> Cheers,
>
> David
>
> ----------
>
> J.D. replied with this:
>
> This will certainly work, but has the unfortunate side-effect of
> re-compiling every method each time an object is read from disk... I
> thought of modifying it slightly to the tune of:
>
> thisdef=Obj_Class(self)+'__DEFINE'
> if (where(routine_info() eq thisdef))[0] eq -1 then
> resolve_routine,thisdef
>
> So that it would only compile if presently undefined.
>
> JD
> --
>

I can see one large hole in this type of procedure. What if you are running the application on a runtime liscense? In this case, the runtime liscense cannot compile any source code, and will fail. Any ideas around that limitation?

Also, not in the quoted text, you were wondering if the /RELAXED_STRUCTURE_ASSIGNMENT works for objects. It does...sortof. I'm currently working with RSI tech support on an apparent bug when you save an object with nested structures in the self structure, then add/change a field in one of the nested structures, and attempt to restore it. The restore will respond with the verbose message from restore:

RESTORE, FILENAME = getfile, RESTORED_OBJECTS=obj_restore, /VERBOSE,

/RELAXED_STRUCTURE_ASSIGNMENT

% RESTORE: Portable (XDR) SAVE/RESTORE file. % RESTORE: Save file written by user@Microsoft Windows Host, Fri Aug 28 09:04:00 1998. % RESTORE: IDL version 5.1 (Win32, x86). % RESTORE: Recovering incompatible definition of structure OUTPUTDATA using relaxed structure assignment rules. % RESTORE: Recovering incompatible definition of structure DIME_PROJECT using relaxed structure assignment rules. % RESTORE: Restored variable: TEMPPROJ. % RESTORE: Did not expect relaxed structure assignment definition for OUTPUTDATA to be in use.

If I then attempt to reference the restored object, I get the following error:

% XMANAGER: Caught unexpected error from client application. Message follows... % Undefined object class: DIME_PROJECT.

The strange thing is, if I do another restore again, I get the same response from RESTORE, but it succeeds and does not fail when I reference the object this time.

If I only make changes to the top level self structure, everything is fine.

Has anyone worked with saved objects that have nested structures and change the nested structure fields between save and restore sessions?

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