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Subject: Re: HANDLE\_FREE: when to use? is it necessary?

Posted by [mgs](#) on Tue, 23 Jul 1996 07:00:00 GMT

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In article

<Pine.SOL.3.91.960722114953.671B-100000@mapper.mbt.washington.edu>, Russ Welti <rwelti@mapper.mbt.washington.edu> wrote:

Hi Russ -

- > I was told once by RSI that if one is only about to reassign
- > a handle to point to a NEW piece of data (when it already
- > points to some other data) it is \*not\* necessary to call
- > HANDLE\_FREE.

That sounds reasonable. Calling Handle\_Create probably chews up a couple hundred bytes each time. More importantly, what happens to the data that you were pointing to before you reassigned the handle? Reassigning the handle doesn't make the data or its associated memory disappear.

- > Also, interestingly, using grep in idl's home /lib dir and in
- > several pub domain dirs which have hundreds of IDL source files
- > and applications, I can find only 3 or 4 occurrences of 'handle\_free'
- > OR 'HANDLE\_FREE'. Why does it not get used? Why does the manual
- > never say or show how to use it? Is it really so unimportant?

I'd have to say the reason for the lack of Handle\_\* in /lib is due to it's newness. I think it's only been around about 18 months, or so. Prior to the Handle\_\*'s coming around, the method was to use unrealized base widgets (looking for Widget\_Base in /lib may not help since it could be used for its intended purpose, as well). Basically, the Handle\_\* routines came about as a means of getting away from the use of Widget\_Base, which was even less intuitive and more confusing than Handle\_Value. The Handle\_Free routine should be used to free up memory within programs because these are created in global memory space. However, I suspect that the problem might be that you are copying data (are you using the /No\_Copy keyword each time?). If so, then you may have several copies of unused data throughout your program. If this isn't the case, feel free to send some code this way and I'll look it over.

...

- > The only possible source would seem to be the fact that I am
- > not explicitly freeing handles, I am simply pointing them to
- > new things.
- >
- > If freeing handles is really the answer, and is a required practise,
- > then why so few occurrences of its use in IDL programs?

Again, newness of the Handle\_\* commands is my guess. Commands that are available in some of the on-line libraries (i.e. Ray Sterner's library from Johns Hopkins Univ.) have often been around for many years. It's not likely that someone would update them just to take advantage of the latest functions. Perhaps the RSI documentation needs to catch up a little, also.

- > Anyone ever gotten a good FAQ on IDL memory management, beyond the
- > few pointers given in the User's Guide, and what can be gleaned
- > from the C programming info in the Advanced Dev. Guide??

Well, I understand RSI has training classes in Widget Programming ...

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