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Subject: Re: Porting to VM

Posted by [JD Smith](#) on Thu, 11 Dec 2003 19:31:56 GMT

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On Thu, 11 Dec 2003 09:55:44 -0700, JD Smith wrote:

> On Wed, 10 Dec 2003 20:19:59 -0700, David Fanning wrote:

>

>> JD Smith writes:

>>

>>> I've been trying to get a large application working in the new IDLVM,

>>> and have run into trouble: apparently, in all calls like:

>>>

>>> XManager, /NO\_BLOCK

>>>

>>> the NO\_BLOCK is ignored, and the call blocks anyway. I suppose this

>>> makes sense, since IDL's non-blocking functionality is provided by the

>>> command-line, which isn't there in the VM. Why would you care about

>>> blocking if there's no command line to interact with? For my

>>> purposes, the distinction between blocking and non-blocking is whether

>>> calls which invoke XManager return immediately, or wait until the

>>> managed widget dies. This isn't mentioned in the "Restrictions" on

>>> the VM FAQ page. Anyone managed to deal with this issue?

>>

>> In SAVE files I've made recently, I've had to add JUST\_REG keywords to

>> all the XMANAGER calls before the last one, which will block and get

>> everything else going.

>

> I heard from an RSI engineer who directed me to a mention of this issue

> in the manual, hidden in a note under XManager:

>

> NO\_BLOCK is ignored by IDL Runtime. If a main procedure uses

> XMANAGER with the NO\_BLOCK keyword set, IDL Runtime defers

> subsequent processing of the commands following the XMANAGER

> call until the widget associated with the call to XMANAGER is

> destroyed.

>

> What this doesn't say is that \*subsequent\*, deeper calls to

> XManager,/NO\_BLOCK will be respected; it's on the "main-level" call

> which otherwise would have yielded to a non-existent active command line

> which is ignored. The moral is, for full VM/Runtime portability, don't

> rely on anything which happens \*after\* the very first call (or, more

> correctly, any top-level call) to XManager executing right away.

> Hopefully this can get added to the IDLVM FAQ.

As I have discovered, there is a corollary to this statement. While the top-level calls to XManager in the VM always block, it appears nested lower-level calls \*never\* block, even if you omit the NO\_BLOCK

keyword (or explicitly set it to NO\_BLOCK=0); IDL runtime/VM essentially ignore NO\_BLOCK, in either state.

This means, to get blocking in the VM, you'll have to use the /MODAL keyword with GROUP\_LEADER in the widget\_base of the widget being displayed. If specifying a GROUP\_LEADER won't work for you (because you don't have one), you can use the obsolete /MODAL keyword to XManager, but you'll have to endure warnings about the use of obsolete features causing global decline, hair loss, and infirmity of spirit. Another option is making a hidden (unrealized) base as a group leader. Ugly, yes, but supported.

JD

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