Subject: get_lun & free_lun
Posted by markb77 on Tue, 19 Aug 2014 12:02:05 GMT
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I just noticed that get_lun and free_lun are limited to unit numbers 100-128. That means an IDL application could have access to (at maximum) 29 files simultaneously.

Is there any way around this, other than hard-coding logical unit numbers into your code?

thanks
Mark

Subject: Re: get_lun & free_lun
Posted by Russell Ryan on Tue, 19 Aug 2014 15:32:57 GMT
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Not that I am aware of. Also, the problem is more sinister... You *ONLY* have access to 29 files, period. You can't open any LUN larger than 128, try it:

openw,150,'tmp.tmp'

At least, that gives me an error...

Russell
IDL> help,!version
** Structure !VERSION, 8 tags, length=104, data length=100:
   ARCH   STRING   'x86_64'
   OS   STRING   'darwin'
   OS_FAMILY   STRING   'unix'
   OS_NAME   STRING   'Mac OS X'
   RELEASE   STRING   '8.2.3'
   BUILD_DATE   STRING   'May 2 2013'
   MEMORY_BITS   INT   64
   FILE_OFFSET_BITS
                   INT   64
I

Subject: Re: get_lun & free_lun
Posted by Yngvar Larsen on Tue, 19 Aug 2014 16:13:17 GMT
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On Tuesday, 19 August 2014 14:02:05 UTC+2, superchromix wrote:
> I just noticed that get_lun and free_lun are limited to unit numbers 100-128. That means an IDL application could have access to (at maximum) 29 files simultaneously.

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>
> Is there any way around this, other than hard-coding logical unit numbers into your code?

1) Use idl_idlbridge. The new idl "child processes" get their own separate set of LUNs (but possibly limited by your OS: see eg "ulimit -n" and "sysctl -n kernel.maxfiles" on a linux system)

or

2) Close your files as soon as possible after you finish reading/writing what you need. (In what scenario do you need to keep more than 29 files open at the same time?)

--
Yngvar

Subject: Re: get_lun & free_lun
Posted by markb77 on Tue, 19 Aug 2014 17:24:57 GMT
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On Tuesday, August 19, 2014 6:13:17 PM UTC+2, Yngvar Larsen wrote:
> On Tuesday, 19 August 2014 14:02:05 UTC+2, superchromix wrote:
>
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> --
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> Yngvar

Thanks for the tip about the IDL_IDLBridge - I'm glad that's the case. I was thinking of a scenario where 5 instances of an application are running simultaneously.. it wouldn't be unreasonable for each of those applications to have 5 files open...
Mark
