

## RE: [dbi] Re: Problem with DBD::ODBC (via unixODBC) connection to remote ADABAS-11 database

*Source:* <http://coding.derkeiler.com/Archive/Perl/perl.dbi.users/2005-02/0177.html>

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*From:* Martin J. Evans ([martin.evans\\_at\\_easysoft.com](mailto:martin.evans_at_easysoft.com))

*Date:* 02/22/05

Date: Tue, 22 Feb 2005 10:59:34 -0000 (GMT)

To: dbi-users@perl.org

The DontDlClose was a suggestion to stop the seg faulting on exit.

When I said you can use DSN=emanuel-sbart;UID=\*;PWD=\*; I did of course mean to say you need to keep the 'dbi:ODBC' on the front. i.e.

'dbi:ODBC:DSN=emanuel-sbart;UID=\*;PWD=\*;'

Martin

--

Martin J. Evans  
Easysoft Ltd, UK  
Development

On 22-Feb-2005 Walter Obermiller wrote:

> Martin, thanks.

>

> I checked. my unixodbc is indeed threaded.

>

> The driver library however, is not:

>

> /usr/local/lib/odbcclib.so  
> /lib/libNoVersion.so.1 => /lib/libNoVersion.so.1 (0x400a9000)  
> linux-gate.so.1 => (0xffffe000)  
> libsqlrte.so => /usr/local/lib/libsqlrte.so (0x400ce000)  
> libm.so.6 => /lib/tls/libm.so.6 (0x40109000)  
> libc.so.6 => /lib/tls/libc.so.6 (0x4012c000)  
> /lib/ld-linux.so.2 => /lib/ld-linux.so.2 (0x80000000)

>

>

> Even with dontDlClose=1 set, I get the dreaded:

>

> Can't connect to data source DSN=emanuel-sbart;UID=\*;PWD=\*; no  
> database driver specified and DBI\_DSN env var not set at  
> odbc-emanuel-test.pl line 17

>

> message. In particular, do you have any idea how I should interpret the  
> 'no database driver' specified part of the message; is this the result  
> of an earlier failure or does it mean something?

>

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```
>
>     -walt
>
>
>
> Quoting Walter Obermiller <obermiller@schweizerbart.de>:
>>
>>
>>>Martin,
>>>
>>>thanks for your reply.
>>>
>>>as to the version of unixodbc, I use what is part of SuSe 9.2:
>>>
>>>   Name           : unixODBC           Relocations: (not relocatable)
>>>   Version        : 2.2.9 Vendor: SUSE LINUX AG, Nuernberg, Germany
>>>   Release        : 4 Build Date: Mo 04 Okt 2004 22:49:44
>>>
>>>Is there a way other than recompiling to check whether threading is
>>>enabled in this build ?
>>
>
>> Try running ldd on libodbc.so and if it mentions pthread library it is
>> probably built with --enable-threads=yes.
>>>Changing the connect string to
>>>
>>>   my $dbh = DBI->connect('DSN=emanuel-sbart;UID=***;PWD=***;')
>>>
>>>   || die "can't connect to $data_source: $DBI::errstr";
>>>
>>>as you suggested results in the message:
>>>
>>>   Can't connect to data source DSN=emanuel-sbart;UID=***;PWD=***;,
>>>   no database driver specified and DBI_DSN env var not set at
>>>   odbc-emanuel-test.pl line 17
>>>
>>>You asked about the driver I am using:
>>>
>>>-----/etc/unixODBC/odbcinst.ini-----
>>>[AdabasD]
>>>Description = AdabasD -Treiber
>>>Driver = /usr/local/lib/odbcclib.so
>>>
>>>this .so is from the adabas11-06 distribution.
>>>
>>>-----/etc/odbc.ini
>>>[emanuel-sbart]
>>>Description = Adabas 11.06 on emanuel
>>>Driver = AdabasD
>>>Server = emanuel
>>>Database = sbart
>>>
>>
>>
>> Try adding DontDLclose=1 to your driver entry in the odbcinst.ini
>> file. It stop unixODBC calling dlclose. Sometimes drivers install atexit
>> handlers and once the driver manager has unloaded the .so they are invalid
>> at exit time.
>>
>>
>> Martin
>>
>>
```

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```
>>>Martin Evans wrote:
>>>
>>>>I might be wrong - my info is well out of date... but on Linux, Perl built
>>>>multithreaded always segfaulted with unixODBC. I think this happened even
>>>
>>>if
>>>
>>>>unixODBC was built threaded (--enable-threads=yes - the default for
>>>
>>>>unixODBC's
>>>
>>>>configure but I'd check your unixODBC was built threaded). I can't remember
>>>
>>>the
>>>
>>>>exact reason I'm afraid. isql is not threaded.
>>>
>>>>The data source not found message may be related to what DBD::ODBC does.
>>>>It first tries to call SQLDriverConnect with (in your case) emanuel-sbart
>>>
>>>and
>>>
>>>>when that fails calls SQLConnect(emanuel-sbart) - you can see this in your
>>>
>>>log.
>>>
>>>>You can get around this by making the DBI connect string
>>>>"DSN=emanuel-sbart;UID=db_user;PWD=db_pass;". See
>>>>
>>>>http://www.easysoft.com/products/9999/faq\_answer.phtml?ID=97&product=2002
>>>>
>>>>but it won't make the segfault go away. I'd rebuild your Perl without
>>>
>>>threads if
>>>
>>>>I were you.
>>>>
>>>>You can also see from your log that the SQLConnect succeeds.
>>>>
>>>>BTW, you did not mention which driver you were using.
>>>>
>>>>Martin
>>>>
>>>>Quoting Walter Obermiller <obermiller@schweizerbart.de>:
>>>>
>>>>
>>>>
>>>>>Hi, all
>>>>>
>>>>>I am experiencing a puzzling problem while trying to get an DBD::ODBC
>>>>>connection (via unixODBC) working from a client machine A (Suse linux)
>>>>>to an ADABAS-D-11 database running on a remote machine (B, also Suse
>>>>>linux)
>>>>>
>>>>>
>>>>>----- Machine A (client)
>>>>> Linux 2.6.8-2
>>>>> Perl : 5.008005 (i586-linux-thread-multi)
>>>>> OS : linux (2.6.8.1)
>>>>> DBI : 1.43
>>>>> DBD::Proxy : install_driver(Proxy) failed: Can't locate
>>>>>RPC/PlClient.pm in @INC
```

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```
>>>> DBD::ODBC          : 1.06
>>>>-----
>>>>
>>>>
>>>>Connections using isql (unixODBC) from machine A to machine B run
>>>>smoothly, hence I reckon, unixodbc and prima facie odbc-configuration
>>>>blotches are not the problem.
>>>>
>>>>
>>>>When I try to trivially connect with DBD::ODBC to the very same DSN
>>>>that I could connect to using isql without a problem, I get a
>>>>segmentation fault.
>>>>
>>>>-----trivial-connect-----
>>>>#!/usr/bin/perl
>>>>use DBI;
>>>>my $dbh = DBI->connect('dbi:ODBC:emanuel-sbart', '***', '***') ||
>>>>                die "can't connect to $data_source: $DBI::errstr";
>>>>$src = $dbh->disconnect;
>>>>exit();
>>>>-----
>>>>
>>>>and inspection of the sql.log (of unixodbc) reveals the error message:
>>>>
>>>>-----
>>>>Message Text = [[unixODBC][Driver Manager]Data source name not found,
>>>>and no default driver specified]
>>>>[ODBC][13206][SQLError.c][424]
>>>>-----
>>>>
>>>>
>>>>Can anybody give me an idea which direction could be pursued to solve
>>>>this problem ?
>>>>
>>>>What beats me is that isql can connect to my remote database, but an
>>>>dbd::odbc connection to the same DSN utterly fails.
>>>>
>>>>Any hints welcome.
>>>>
>>>>    -walter
>>>>
>>>>
>>>>
>>>>-----sql.log-----
>>>>--
>>>>
>>>>[ODBC][13206][__handles.c][421]
>>>>                Exit:[SQL_SUCCESS]
>>>>
>>>>
>>>>    Environment = 0x82ce928
>>>>
>>>>
>>>>[ODBC][13206][SQLSetEnvAttr.c][182]
>>>>                Entry:
>>>>
>>>>
>>>>    Environment = 0x82ce928
>>>>
>>>>
>>>>
>>>>
```

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```
>>>> Attribute = SQL_ATTR_ODBC_VERSION
>>>>
>>>>
>>>>>
>>>>
>>>> Value = 0x3
>>>>
>>>>
>>>>>
>>>>
>>>> StrLen = -6
>>>>
>>>>
>>>>>[ODBC][13206][SQLSetEnvAttr.c][349]
>>>>>      Exit:[SQL_SUCCESS]
>>>>>[ODBC][13206][SQLAllocHandle.c][346]
>>>>>      Entry:
>>>>>
>>>>>
>>>>> Handle Type = 2
>>>>>
>>>>>
>>>>>>
>>>>> Input Handle = 0x82ce928
>>>>>
>>>>>[ODBC][13206][SQLAllocHandle.c][464]
>>>>>      Exit:[SQL_SUCCESS]
>>>>>
>>>>> Output Handle = 0x82ceeb8
>>>>>
>>>>>
>>>>>>[ODBC][13206][SQLDriverConnect.c][666]
>>>>>      Entry:
>>>>>
>>>>>
>>>>> Connection = 0x82ceeb8
>>>>>
>>>>>
>>>>>>
>>>>> Window Hdl = (nil)
>>>>>
>>>>>
>>>>>>
>>>>> Str In = [emanuel-sbart][length = 13]
>>>>>
>>>>>
>>>>>>
>>>>> Str Out = 0xbfffdfc0
>>>>>
>>>>>
>>>>>>
>>>>> Str Out Max = 2048
>>>>>
>>>>>
>>>>>>
```

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```
>>>>
>>>> Str Out Ptr = 0xbffdfdbe
>>>>
>>>>
>>>>>
>>>>
>>>> Completion = 0
>>>>
>>>>
>>>>>[ODBC][13206][SQLDriverConnect.c][998]Error: IM002
>>>>>[ODBC][13206][SQLError.c][424]
>>>>> Entry:
>>>>>
>>>>
>>>> Connection = 0x82ceeb8
>>>>
>>>>
>>>>>
>>>>
>>>> SQLState = 0xbffdf60
>>>>
>>>>
>>>>>
>>>>
>>>> Native = 0xbffdd58
>>>>
>>>>
>>>>>
>>>>
>>>> Message Text = 0xbffdd60
>>>>
>>>>
>>>>>
>>>>
>>>> Buffer Length = 511
>>>>
>>>>
>>>>>
>>>>
>>>> Text Len Ptr = 0xbffdd5e
>>>>
>>>>
>>>>>[ODBC][13206][SQLError.c][461]
>>>>> Exit:[SQL_SUCCESS]
>>>>>
>>>>
>>>> SQLState = IM002
>>>>
>>>>
>>>>>
>>>>
>>>> Native = 0xbffdd58 -> 0
>>>>
>>>>
>>>>>
>>>>
>>>> Message Text = [[unixODBC][Driver Manager]Data source name not found,
>>>>
>>>>
>>>>>and no default driver specified]
>>>>>[ODBC][13206][SQLError.c][424]
>>>>> Entry:
```

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>>

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