
Subject: IDL on Linux Server

Posted by [Gunter Laky](#) on Wed, 07 Mar 2001 10:59:53 GMT

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Dear all,

I have just installed IDL 5.4 to a Linux Server (Red Hat 6.2 (Zoot), Kernel 2.2.14-5, XFree86-VGA16). Installation went through without any errors or warnings.

I have now tried to start idl (before licensening it). First I got two error messages of two libraries missing (libXpm.so.4 and libc-so.5). I just found this libs on my machine and copied it to the /<IDL-DIR>/bin/bin-linux-x86 directory.

Now I get a segmentation fault, which is even the worst because it tells you nothing.

Has anybody tried the same or a similar installation? Can anybody give me a hint?

Please help me, we need to run IDL on these machines!!!

Best regards

Gunter Laky

Space Reserach Institue, Graz, Austria

Gunter.Laky@oeaw.ac.at

Subject: Re: IDL on Linux Server

Posted by [pit](#) on Wed, 07 Mar 2001 11:17:27 GMT

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Hi Gunter,

Gunter Laky <Gunter.Laky@oeaw.ac.at> writes:

> Dear all,

>

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> Kernel 2.2.14-5, XFree86-VGA16). Installation went through without any
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> you nothing.

Hu, does IDL 5.4 require libc5? I only have 5.2 installed, but that is already libc6. (Try ldd IDL_DIR/bin/bin.linux/idl to see which libraries are required)

RedHat 6.2 is libc6-based, so the libXpm.so.4 is most probably for that version - maybe there is the problem. You can also use ldd libXpm.so.4 to see which version it is.

Peter

--

~~~~~  
~~~~~  
Dr. Peter "Pit" Suetterlin <http://www.astro.uu.nl/~suetter>
Sterrenkundig Instituut Utrecht
Tel.: +31 (0)30 253 5225 P.Suetterlin@astro.uu.nl

Subject: Re: IDL on Linux Server
Posted by [Gunter Laky](#) on Wed, 07 Mar 2001 12:09:06 GMT
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Dear Peter,

I have checked it, as you told me. IDL 5.4 needs libc6, but libXpm.so.4 needs both libc5 and libc6, at least this is what "ldd libXpm.so.4" tells me. I'm very new to Linux (however, I have worked with other Unix systems), so I'm not sure about this library stuff.

Funny enough, after checking I now get a different error message. It's "Floating point exception". Really mysteriously.

Gunter

Peter Suetterlin wrote:

```
> Hi Gunter,  
>  
> Gunter Laky <Gunter.Laky@oeaw.ac.at> writes:  
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> Dr. Peter "Pit" Suetterlin <http://www.astro.uu.nl/~suetterlin>
> Sterrenkundig Instituut Utrecht
> Tel.: +31 (0)30 253 5225 P.Suetterlin@astro.uu.nl
>

Subject: Re: IDL on Linux Server
Posted by [Nigel Wade](#) on Wed, 07 Mar 2001 16:06:38 GMT
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>>> >>>>>>>>>> Original Message <<<<<<<<<<<<<<

On 07/03/01, 10:59:53, Gunter Laky <Gunter.Laky@oeaw.ac.at> wrote regarding IDL on Linux Server:

- > Dear all,
- > I have just installed IDL 5.4 to a Linux Server (Red Hat 6.2 (Zoot),
- > Kernel 2.2.14-5, XFree86-VGA16). Installation went through without any
- > errors or warnings.
- > I have now tried to start idl (before licensening it). First I got two
- > error messages of two libraries missing (libXpm.so.4 and libc-so.5). I
- > just found this libs on my machine and copied it to the
- > /<IDL-DIR>/bin/bin-linux-x86 directory.
- > Now I get a segmentation fault, which is even the worst because it tells
- > you nothing.

- > Has anybody tried the same or a similar installation? Can anybody give
- > me a hint?
- > Please help me, we need to run IDL on these machines!!!

I can't really help with 5.4 as I am still waiting for RSI (UK) to send me my copy. But I have 5.3 working perfectly here and I can't imagine 5.4 is all that different.

I would be very surprised if 5.4 required libc5. Are you certain it said that libc.so.5 was required? IDL 5.3 uses libc6.

This is the list of library dependencies I have for IDL 5.3:

```
libidl.so.5.3 => ./libidl.so.5.3 (0x40015000)
libMesaGLU.so.3 => ./libMesaGLU.so.3 (0x40662000)
libMesaGL.so.3 => ./libMesaGL.so.3 (0x40678000)
libXp.so.6 => /usr/X11R6/lib/libXp.so.6 (0x4075d000)
libXpm.so.4 => /usr/X11R6/lib/libXpm.so.4 (0x40765000)
libXext.so.6 => /usr/X11R6/lib/libXext.so.6 (0x40772000)
libXt.so.6 => /usr/X11R6/lib/libXt.so.6 (0x4077f000)
libSM.so.6 => /usr/X11R6/lib/libSM.so.6 (0x407c7000)
libICE.so.6 => /usr/X11R6/lib/libICE.so.6 (0x407d0000)
libX11.so.6 => /usr/X11R6/lib/libX11.so.6 (0x407e6000)
libm.so.6 => /lib/libm.so.6 (0x408a9000)
libc.so.6 => /lib/libc.so.6 (0x408c6000)
libdl.so.2 => /lib/libdl.so.2 (0x409bb000)
/lib/ld-linux.so.2 => /lib/ld-linux.so.2 (0x40000000)
```

My libXpm comes from the xpm-3.4k-2 package.

Where did you get your libc.so.5 and libXpm.so.4 from?

--

Nigel Wade, System Administrator, Space Plasma Physics Group,
University of Leicester, Leicester, LE1 7RH, UK
E-mail : nmw@ion.le.ac.uk
Phone : +44 (0)116 2523568, Fax : +44 (0)116 2523555

Subject: Re: IDL on Linux Server
Posted by [James Tappin](#) on Thu, 08 Mar 2001 14:43:41 GMT
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Nigel Wade wrote:

```
>
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>
```

On a SuSE 7.0 box (which has very similar versions of most things to RH 6.2), IDL 5.4 installed and ran in demo mode, but the licence server needed libc5 (available for SuSE as a compatibility package so I guess RH does so as well).

James

```
--
+-----+-----+-----+
| James Tappin          | School of Physics & Astronomy | O__ |
| sjt@star.sr.bham.ac.uk | University of Birmingham      | -- V^ |
| Ph: 0121-414-6462. Fax: 0121-414-3722 |                               |     |
+-----+-----+-----+
```

Subject: Re: IDL on Linux Server
Posted by [Nigel Wade](#) on Fri, 09 Mar 2001 10:28:30 GMT
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>>> >>>>>>>>>> Original Message <<<<<<<<<<<<<<

On 08/03/01, 14:43:41, James Tappin <sjt@star.sr.bham.ac.uk> wrote regarding Re: IDL on Linux Server:

- > On a SuSE 7.0 box (which has very similar versions of most things to RH
- > 6.2), IDL 5.4 installed and ran in demo mode, but the licence server
- needed
- > libc5 (available for SuSE as a compatibility package so I guess RH does
- so
- > as well).

As I neither run a license manager on Linux, or have IDL 5.4 to check this may be meaningless. But I've just checked on lmgrd for IDL 5.3 and this appears to be linked against libc6, ldd says :

```
libc.so.6 => /lib/libc.so.6 (0x4001d000)
/lib/ld-linux.so.2 => /lib/ld-linux.so.2 (0x40000000)
```

Did IDL 5.4 lmgrd somehow go back a step?

--

Nigel Wade, System Administrator, Space Plasma Physics Group,
University of Leicester, Leicester, LE1 7RH, UK
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Phone : +44 (0)116 2523568, Fax : +44 (0)116 2523555

Subject: Re: IDL on Linux Server
Posted by [pit](#) on Fri, 09 Mar 2001 14:24:13 GMT
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Hi Gunter,

Gunter Laky <Gunter.Laky@oeaw.ac.at> writes:

> I have checked it, as you told me. IDL 5.4 needs libc6, but
> libXpm.so.4 needs both libc5 and libc6, at least this is what "ldd
> libXpm.so.4" tells me. I'm very new to Linux (however, I have worked
> with other Unix systems), so I'm not sure about this library stuff.

That shouldn't happen - where did you get this xpm library? You should install the official version for RedHat 6.2 (that should be xpm-3.4k-2; get it either from the installation CD or some mirror site), eventually run ldconfig (and remove the version you put into the IDL dir).

Then it should find the correct lib version himself...

Peter

--

~~~~~  
~~~~~  
Dr. Peter "Pit" Suetterlin <http://www.astro.uu.nl/~suetter>
Sterrenkundig Instituut Utrecht


```
> % ldd /usr/local/rsi/idl/bin/bin.linux.x86/idl_lmgrd
>      libc.so.5 => /usr/i486-linux-libc5/lib/libc.so.5 (0x4000d000)

> % rpm -qf /usr/i486-linux-libc5/lib/libc.so.5.3.12
> libc-5.3.12-31

> idl_lmgrd needs the compatibility library.

> JD
```

Ah, I only checked the license manager, lmgrd, not the IDL license daemon. Indeed, idl_lmgrd is the same on my system in requiring libc5.

It appears to be the only thing which still does require libc5, but that is a real nuisance for anyone requiring a license manager on Linux.

--

Nigel Wade, System Administrator, Space Plasma Physics Group,
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