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Subject: Re: IDL.5.2.1

Posted by [Michael Kueppers](#) on Fri, 07 Jan 2000 08:00:00 GMT

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You might want to

> have a look at [html://www.rsinc.com](http://www.rsinc.com)

Of course it's <http://www.rsinc.com>

Sorry,  
Michael

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Subject: Re: IDL.5.2.1

Posted by [Michael Kueppers](#) on Fri, 07 Jan 2000 08:00:00 GMT

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Eiichi Sagawa wrote:

>  
> Help needed,  
>  
> I could remeber that there were several discussions about installation  
> problem of IDL 5.2 over Linux/RedHat 6.1 machine, though I was not much  
> interested with this topic at that time. I'm having exactly same  
> problem now. Could anyone tell me how to cope with this? Seems to me  
> problems is related to versin of 'libc'  
>  
> regards,  
>  
> Eiichi SAGAWA  
> Communications Research Laboratory

The following is a copy of an old message in this newsgroup from  
Liam Gumley (I think). It worked at least for Redhat 6.0  
I also heard that RSI has released a version 5.2.1 for Linux  
in which the installation problem was fixed. You might want to  
have a look at [html://www.rsinc.com](http://www.rsinc.com)

Regards,  
Michael Kueppers

To get IDL 5.2 to work under Redhat 6.0, a patch is required. The  
instructions below were posted by Olivier Archer  
(<mailto:oarcher@ifremer.fr>), and have been used here successfully for  
two different Linux systems.

---start quote---

Here's another way to get around the problem.  
The goal is to define the setfpucw function

\_\_setpucw.c:

```
void __setfpucw(void)
{
}
void __libc_init(void)
{
}
void _dl_symbol_value()
{
}
```

Compile it:

```
#gcc -fPIC -c __setfpucw.c
#ld -shared -o __setfpucw.so -assert pure-text __setfpucw.o
```

define the LD\_PRELOAD environment variable before launching  
idl:

```
#export LD_PRELOAD=./?/?/__setfpucw.so
```

---end quote---

--

Michael Kueppers      email: [kueppers@phim.unibe.ch](mailto:kueppers@phim.unibe.ch)  
Physikalisches Institut    Tel: [41] - (31) - 631 4419  
Universitaet Bern        FAX: [41] - (31) - 631 4405  
CH-3012 Bern, Switzerland

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Subject: Re: IDL.5.2.1

Posted by [Ivan Zimine](#) on Fri, 07 Jan 2000 08:00:00 GMT

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Hello,

You need to get idl\_5.2.1L as the easiest solution (or get idl\_5.3).  
If you really want to get idl\_5.2 running on RH6.x then you need to get  
an old version of of glibc(2.0.7) and make a script to run idl (see  
attachment).

Good luck,

Ivan

Eiichi Sagawa wrote:

>  
> Help needed,  
>  
> I could remeber that there were several discussions about installation  
> problem of IDL 5.2 over Linux/RedHat 6.1 machine, though I was not much  
> interested with this topic at that time. I'm having exactly same  
> problem now. Could anyone tell me how to cope with this? Seems to me  
> problems is related to versin of 'libc'  
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> regards,  
>  
> Eiichi SAGAWA  
> Communications Research Laboratory

--

Ivan Zimine  
Dpt. of Radiology (MRI), Geneva University Hospitals  
email: ivan.zimine@physics.unige.ch  
tel. : (+41 22) 372 70 70

> NewsMan wrote:  
>>  
>> The new RedHat-6.0 Linux with glibc-2.1 breaks IDL-5.2. I got the  
>> following error when I invoke IDL.  
>> [...]  
>  
> just a quick status "report" on this. I have just installed IDL on  
> RedHat 5.2 and since there are some problems with colortables and fvwm2  
> (see earlier article in thsi newsgroup -- btw: lesstif works) I had  
> asked RSInc about the patch mentioned earlier. They repied it's a pretty  
> old piece of code and not certain that it woield still apply.  
> FURthermore I learned, that the RedHat version currently supported by  
> RSInc is 5.1 (not 5.2). I dropped a hint that 6.0 is available soon ...  
> may take a while before they get into it though.  
>  
> Martin.  
>  
>

You can easily install an old glibc (RH 5.2 has 2.0.7), and set up your LD\_PRELOAD environment variable just before running idl (perhaps in a shell which runs only idl and is used for no other purpose). This way you can continue using RH 6.0 using glibc-2.1, but IDL will work (and find this library function it needs to work). Such a script might look like:

```
#!/bin/sh
export LD_PRELOAD=/lib/libc-2.0.7
$IDL_DIR/bin/idl
```

Good Luck,

JD

--

```
J.D. Smith          |*|   WORK: (607) 255-5842
Cornell University Dept. of Astronomy |*|   (607) 255-6263
304 Space Sciences Bldg.          |*|   FAX: (607) 255-5875
Ithaca, NY 14853                |*|
```

> OK, I also am having trouble getting IDL to work with redhat 6.0. I tried the  
> above approach after copying libc-2.0.7.so from /usr/i386-glibc20-linux/lib/  
> (where the compat files are put) to /lib, but even with the 2.0.7 library I  
> get the same error message. Any ideas?

We managed to get IDL to work by installing the compatibility libraries. I then modified the idl script (the one which runs the binary) at the end to read:

```
app=$IDL_DIR/bin/bin.$OS$OSVER$ARCH/$APPLICATION
```

```
if [ -e /lib/ld-2.0.7.so ] ; then
  exec $app $* $APP_ARGS
else
  libdir=/usr/i386-glibc20-linux/lib
```

```
  export LD_LIBRARY_PATH="{libdir}:${LD_LIBRARY_PATH}"
  exec ${libdir}/ld-2.0.7.so $app $* $APP_ARGS
fi
```

This seems to work, although we haven't tried running programs with external shared libraries.

Jeremy Sanders

--

Jeremy Sanders jss@ast.cam.ac.uk Pembroke College, Cambridge. CB2 1RF  
(01223) 337511 Institute of Astronomy, Madingley Road, Cambridge. CB3 0HA

John P Grimes wrote:

> I tried this unfortunately to no avail. Where did you get the compatibility  
> files. I certainly have /lib/ld-2.0.7 installed.

```
> this is the error I get
> /usr/local/rsi/idl_5.2/bin/bin.linux/ldlde: error in loading shared libraries
> /lib/libc.so.6: undefined symbol: _dl_initial_searchlist
```

I didn't mean you should copy old versions to /lib/ld-2.0.7. The check in the script checks to see which version of RedHat you're using.

Just install:

```
compat-glibc-5.2-2.0.7.1.i386.rpm
compat-libs-5.2-1.i386.rpm
compat-binutils-5.2-2.9.1.0.23.1.i386.rpm
```

and change the idl script (or create a new one).

-----

Hi,

First thank you jeremy for your help. it definitely helped. What was actually causing the problem was that /lib/ld-2.0.7.so existed (redhat upgrade left it there) but libc-2.1.1.so was also in the same directory. So it was using incompatible version of the libraries. So I just deleted ld-2.0.7 from the directory and now it is happily loading from the /usr/i386-glibc20-linux/lib directory.

As a side note before running the idl license manager you have to preload /usr/i486-linux-libc5/lib/ (or wherever you have the libc 5.0 libraries). When is idl and the license manager going to be updated. The license manager is archaic to run on libc 5.0 and wouldn't it be easy for idl to support more linux systems? I "think" it would be worth it.

thanks  
John

-----

IDL 4.01 is linked against some very old aout-libraries:

```
hell:bin.linux% ldd idl
  libXt.so.6 (DLL Jump 6.0) =>
/usr/X11R6/lib/i486-linuxaout/libXt.so.6
  libX11.so.6 (DLL Jump 6.0) =>
/usr/X11R6/lib/i486-linuxaout/libX11.so.6
  libc.so.4 (DLL Jump 4.6pl27) => /usr/local/lib/libc.so.4
  libm.so.4 (DLL Jump 4.6pl27) => /usr/local/lib/libm.so.4
```

(this is not RH, so locations of the libs are different for you)

If you still have the old RH you possibly can grab those libraries and install them manually.

At least that works for me (both Debian 2.0 and SuSE 6.1)

## File Attachments

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1) [idl5.2\\_RH6](#), downloaded 115 times

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