
Subject: VLC needs to be recompiled for EL 7.7
Posted by [DrLove73](#) on Thu, 19 Sep 2019 09:36:24 GMT
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Hi Nux.

vlc-core version 2.2.5.1-2 is compiled against freerdp from EL 7.0-7.6. In 7.7 Freerdp is now version 2.0.0-1.rc4 so VLC needs to be recompiled for new freerdp version.

Subject: Re: VLC needs to be recompiled for EL 7.7
Posted by [TrevorH](#) on Fri, 20 Sep 2019 09:06:18 GMT
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You can find up to date versions of vlc in one of the rpmfusion repos but since rpmfusion is largely incompatible with nux, you might also find it easier to use by installing it using flatpak. To do that you need to do something like this

```
$ cat /tmp/org.videolan.VLC.flatpakref
[Flatpak Ref]
Name=org.videolan.VLC
Branch=stable
Title=org.videolan.VLC from flathub
IsRuntime=false
Url=https://dl.flathub.org/repo/
SuggestRemoteName=flathub
GPGKey=mQINBFID2sABEADsiUZUOYBg1UdDaWkEdJYkTSDZD68214m8Q1fbrP5AptaUfCI8KY
KFMNoAJRBXn9FbE6q6VBzghHXj/rSnA8WPnkbaEWR7xltOqzB1yHpCQ1I8xSfH5N02DMUBSRt
D/rOYsBKbaJcOgW0K21sX+BecMY/AI2yADvCJEjhVKrjR9yfRX+NQEhDcbXUFRGt9ZT+TI5yT4x
cwbvvTu7aFUR/dH7+wjrQ7lzoGIZGFFrQXsS2WI0WaYHWDeCwymtohXryF8lcWQkhH8UhfNJVB
JFgCY8Q6UHKZG0FxmU8xnIDBMjBmSZKwKQn0nwzwm2afskZENmNPYDI8nuNsSZBZSAw+Th
hkdCZHZZRwzmjzyRuLLVFpOj3XryXwZcSefNMPDkZAUwWzPYjxS80cm2hG1WfqrG0GI8+iX69
cbQchb7gbEb0RtqNskTo9DDmO0bNKNmMbzmlJ3/rTbSahKSwtewklqSP/01o0WKZiy+n/RAkUK
OFBprjJtWOZkc8SPXV/rnoS2dWsJWQZhuPPtv3tefdDiEyp7ePrfgfKxuHpZES0IZRiF14J/nAUP5bi
x+srclxOVqAam68CbAlPvWTivRUMRVbKjJiGXIOJ78wAMjqPg3QIC0GQ0EPAWwAOzppdgbnG7
TCQetaVV8rSYCuirIPYN+bJlWbtkOC9SWLoPMVZTwQARAQABtC5GbGF0aHVlIFJlcG8gU2lnb
mluZyBLZXkgPGZsYXRodWJAZmxhdGh1Yi5vcmc+iQJUBBMBCAA+FiEEblwF2XnHba+TwIE1Q
YTdTZB6fK4FAIID2sACGwMFCRLMAwAFCwklBwIGFQgJCgsCBBYCAwECHgECF4AACgkQQY
TdTZB6fK5RJQ/+Ptd4sWxaiAW91FFk7+wmYOkEe1NY2UDNJjEEz34PNP/1RoxveHDt43kYJQ2
3OWaPJuZAbu+fWtjRYcMBzOsMCaFcRSHFiDIC9aTp4ux/mo+IEeyarYt/oyKb5t5lta6xaAqg7rwt6
5jW5/aQjnS4h7eFZ+dAKta7Y/fljNrOznUp81/SMcx4QA5G2Pw0hs4Xrxg59oONOTFGBgA6FF8W
QghrpR7SnEe0FSEOVsAjwQ13Cfka7b70omXSWp7GWfUzgbKyoWxKTqzMN3RQHjjhPJcsQnr
qH5enUu4Pcb2LcMFpzimHnUgb9ft72DP5wxfzHGAWOUiUXHbAekfq5iFks8cha/RST6wKxG3Rf4
4Zn09aOxh1btMcGL+5xb1G0BuCQnA0fP/kDYIPwh9z22EqwRQOspIcvGeLVkFelfubxpcMdOfQq
QnZtHMCabV5Q/Rk9K1ZGc8M2hlg8gHbXMFch2xJ0Wu72eXbA/UY5MskEeBgawTQnQOK/vNm
7t0AJMpWK26Qg6178UmRghmeZDj9uNRc3E11nSbgvmGlpDmCxaAGqaGL1zW4KPW5yN25/qe
qXcgCvUjZLI9PNq3Kvz1p1Urbx7heRiSoazCucvHQ1VHUzcPVLUKKTKoTP8okThnRRRsBcZ1+jl
```

4yMWIDLOCT7IW3FePr+3xyuy5eEo9a25Ag0EWUPa7AEQALT/CmSyZ8LWIRYQZKYw417p7Z2
hxqd6TjwkwM3IQ1irumkWcTZBZlBgrSOg6CcXD2oWydCQHWi9qaxhuhEI2bJL5LskmBcMxVdQ
eD0LLHd8QUbnbnlby8ocvWN1aIPfvJFjCUTrmD22U1ycOzRw2lle4kiQONbOZtdWrVImQQSndjFli
sitbmlWHvHm2lOOYy8+GJB7YffVV193hmnBSJffCy4bvkuLxsl+n1DhOzc7MPV3z6HGk4HiEcF0y
yt9tCYhpsxHFdBoq2h771HfAcS0s98EVAqYMFnf9em+4cnYpdl6mhlF51FQiKI6DBAYA8tT3ggla00
DurPo0JwX/zN+PaO5h/6O9aCZwV7G6rbkgMuqMergXaf8oP38gr0z+MqWnkmfM63Bodq68GP4I4h
d02BoFBbDf38TMuGQB14+twJMdfAxo2MbgluvQgfwHfZ2ca6gyEY+9s/YD1gugLjV+S6CB51Wk
FNe1z4tAPgJZNxUcKCbeaHNbthl8Hks/pY9RCEseX/Edzf18epbSjJMPH4DPQXbUoFwmyuYco
BOPmvZHNI9hK7B/1RP8w1ZrXk8qdupC0SNbafX7270B7IMMVImzZetGsM9ypXJ6llhp3FwW09is
eNyGJGPsR/dvTMGDxqOPfU/9SAS1LSTY4K9PbRtdrBE318YX8mlk5ABEBAAGJBHIEGAEIACY
WIQRuXAXZecdtr5PAgTVBhN1NkHp8rgUCWUPa7AlbAgUJEsWDAAJACRBBhN1NkHp8rsF0IA
QZAQgAHRYhBFSmzd2JGfsgQgDYrFYnAunj7X7oBQJZQ9rsAAoJEFYnAunj7X7oR6AP/0KYmiA
Feqx14Z43/6s2gt3VhxlSd8bmcVV7oJFbMhdHBlEwBp2BvsUf00I0ZI14ZkwCKfLwbbORC2elxvzJ
+QWjGfPhDmS4XUSmhlXxWnYEveSek5Tde+fmU6lqKM8CHg5BNx4GWIX/vdLi1wWJZyhrUwwl
CAxkuhKxuP2Z1An48930esiTD2GGcjByc27+9clZjHKA07l/aLffo04V+oMT9/tgzoquzgpVV4jwekA
Do2MJjhkkPveSNI420bgT+Q7Fi1I0X1aFUniBvQMsaBa27PngWm6xE2ZYvh7nWCdd5g0c0eLIHx
WwzV1IZ4Ryx4ITO/VL25ltECcjhTRdYa64sA62MYSaB0x3eR+SihpgP3wSNPFu3MJo6FKTFdi4C
BAEmpWHFW7FcRmd+cQXeFrHLN3iNVWryy0HK/CUEJmiZEmpNiXecl4vPIIuyF0zgSCztQtKoM
r+injpmQGC/rF/ELBVZTUSLNB350S0Ztw0FKWDAJSxFmox3xycqvvt47rxTrhi78nkk6jATKGyVp
55sO+K7Q7Wh0DXA69hvPrYW2eu8jGCdVGxi6HX7L1qcfEd0378S71dZ3g9o6KKI1OsDWWQ6M
J6FGBZedl/ibRfs8p5+sbCX3IQSjEFy3rx6n0rUrXx8U2qb+RCLzJlMc5MNBOTDjwHPcX6gKsUcX
ZrEQALmRHoo3SrewO41RCr+5nUlqiqV3AohBMhnQbGzyHf2+drutlaoh7Rj80XRh2bkkuPLwINP
+bTXwNVGse4bej7B3oV6Ae1N7ITNVF4Qh+1OowtGjmfJPW0z1s6HFJVxolof9z58Msvgao0zrK
GqaMwANQ6LUeC9g9Aj/9Uqjbo8X54aLiYs8Z1WNc06jKP+gv8AWLtv6CR+I2kLez1YMDucjm7v6
iuCMVAmZdmxhg5l/X2+OM3vBsqPDdQpr2TPDLX3rCrSbIS0gOQ6DwN5N5QeTkxmY/7QO8bgL
o/Wzu1iilH4vMKW6LBKCaRx5UEJxKpL4wkgITsYKneIt3NTHo5EOuaYk+y2+Dvt6EQFiuMsdbfUjs
3selHsghX/cbPJa4YUqZAL8C4OtVHajwGo0ymt9MWvS9yNKMMyT0JhN2/BdeOVWrHk7wXXJn/Zj
pXilicXKPx4udCF76meE+6N2u/T+RYZ7fP1QMEtNZNmYDOfA6sViuPDfQSHLNbauJBo/n1sRYA
sL5mcG22UDchJrIKvmK3EOADCQg+myrm8006LitubNB4wWNzHDJ0Ls2JGzQZCd/xGyVmUiidC
BURd537WdknOYE4FD7P0cHaM9brKJ/M8LkEH0zUlo73bY4XagbnCqve6PvQb5G2Z55qhWphd6
f4B6DGed86zJEa/RhS

RuntimeRepo=https://dl.flathub.org/repo/flathub.flatpakrepo

\$ sudo flatpak install /tmp/org.videolan.VLC.flatpakref

The remote 'flathub', referred to by 'org.videolan.VLC' at location https://dl.flathub.org/repo/
contains additional applications.

Should the remote be kept for future installations? [y/n]: y

X11 connection rejected because of wrong authentication.

Required runtime for org.videolan.VLC/x86_64/stable (runtime/org.kde.Platform/x86_64/5.12)
found in remote flathub

Do you want to install it? [y/n]: y

Installing in system:

org.kde.Platform/x86_64/5.12	flathub 5539ccd35690
org.freedesktop.Platform.html5-codecs/x86_64/18.08	flathub 6ebb408b6e25
org.kde.KStyle.Adwaita/x86_64/5.12	flathub 4b28aaee7c75
org.kde.Platform.Locale/x86_64/5.12	flathub b4cd61e0b3cc
org.videolan.VLC/x86_64/stable	flathub 10f379499e07

permissions: ipc, network, pulseaudio, x11, devices

file access: host, xdg-config/kdeglobals:ro, xdg-run/dconf, xdg-run/gvfs, ~/.config/dconf:ro

dbus access: ca.desrt.dconf, com.canonical.AppMenu.Registrar, org.freedesktop.Notifications, org.freedesktop.ScreenSaver, org.freedesktop.secrets, org.kde.kwalletd, org.kde.kwalletd5, org.mpris.MediaPlayer2.Player

dbus ownership: org.mpris.MediaPlayer2.vlc
org.videolan.VLC.Locale/x86_64/stable flathub 84f5a9f77119

Is this ok [y/n]: y

Installing: org.kde.Platform/x86_64/5.12 from flathub

[#####=] Downloading files: 12858/29177 155.3 MB (848.7 kB/s)

...

You will also need to yum remove the existing vlc first.

Subject: Re: VLC needs to be recompiled for EL 7.7
Posted by [TrevorH](#) on Fri, 20 Sep 2019 17:39:56 GMT

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Please note: this does work but I did just notice the minor drawback... it installs 1.2GB of prereq flatpak packages in order to install an 88MB copy of vlc ;)

Subject: Re: VLC needs to be recompiled for EL 7.7
Posted by [nux](#) on Tue, 24 Sep 2019 07:55:44 GMT

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Sorry guys, was in holidays when new release came out, will try to fix it.

Subject: Re: VLC needs to be recompiled for EL 7.7
Posted by [alvaro](#) on Tue, 24 Sep 2019 10:13:27 GMT

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DrLove73 wrote on Thu, 19 September 2019 11:36Hi Nux.
vlc-core version 2.2.5.1-2 is compiled against freerdp from EL 7.0-7.6. In 7.7 Freerdp is now version 2.0.0-1.rc4 so VLC needs to be recompiled for new freerdp version.

I am not sure if VLC 2.2 can be rebuilt against FreeRDP 2.0.

Anyway, here is my initial patch for the SPEC file (without changelog):

```
--- vlc-2.2.5.1-2.el7.nux.spec 2019-09-24 08:20:54.699684239 +0200
+++ vlc.spec 2019-09-24 10:25:50.872383931 +0200
@@ -1,7 +1,12 @@
+%define devtoolset %{nil}
+%if 0%{?rhel} && 0%{?rhel} <= 7
+ %define devtoolset 7
```

```

+%endif
+
Summary:   The cross-platform open-source multimedia framework, player and server
Name:     vlc
Version:  2.2.5.1
-Release: 2%{?dist}
+Release: 2.1%{?dist}
Epoch:   1
License:  GPLv2+
URL:      http://www.videolan.org
@@ -45,7 +50,7 @@
BuildRequires: pkgconfig(fdk-aac)
BuildRequires: pkgconfig(flac)
BuildRequires: pkgconfig(fluidsynth) >= 1.1.2
-BuildRequires: pkgconfig(freerdp) >= 1.0.1
+BuildRequires: freerdp-devel >= 2.0.0
BuildRequires: pkgconfig(freetype2)
BuildRequires: pkgconfig(fribidi)
BuildRequires: pkgconfig(gl)
@@ -132,6 +137,13 @@
BuildRequires: pkgconfig(xproto)
BuildRequires: pkgconfig(zvbi-0.2) >= 0.2.28

+%if 0%{?devtoolset}
+BuildRequires: devtoolset-%{devtoolset}-gcc-c++
+BuildRequires: devtoolset-%{devtoolset}-gcc
+BuildRequires: devtoolset-%{devtoolset}-binutils
+BuildRequires: devtoolset-%{devtoolset}-libatomic-devel
+%endif
+
Requires:  vlc-core%{_isa} = %{?epoch}:%{version}-%{release}
Requires:  kde-filesystem

@@ -199,6 +211,15 @@
    configure.ac

%build
+%if 0%{?devtoolset}
+# We need to disable exit on error temporarily for the following scripts:
+set +e
+
+source scl_source enable devtoolset-%{devtoolset}
+
+set -e
+%endif
+
autoreconf -vif
%configure \

```

```

--disable-silent-rules \
@@ -215,7 +236,7 @@
--with-default-monospace-font-family=DejaVuSansMono \
--with-pic

-make % {?_smp_mflags}
+% {make_build}

%install
make install DESTDIR=%{buildroot} INSTALL="install -p" CPPROG="cp -p"
@@ -362,7 +383,7 @@
%{_libdir}/%{name}/plugins/access/liblive555_plugin.so
%{_libdir}/%{name}/plugins/access/libpulsesrc_plugin.so
%{_libdir}/%{name}/plugins/access/librar_plugin.so
-%{_libdir}/%{name}/plugins/access/librdp_plugin.so
+##%{_libdir}/%{name}/plugins/access/librdp_plugin.so
%{_libdir}/%{name}/plugins/access/librtp_plugin.so
%{_libdir}/%{name}/plugins/access/libsdp_plugin.so
%{_libdir}/%{name}/plugins/access/libstftp_plugin.so
@@ -673,9 +694,9 @@
%{_libdir}/%{name}/plugins/video_splitter/libwall_plugin.so
%{_libdir}/%{name}/plugins/visualization/libglspectrum_plugin.so
%{_libdir}/%{name}/plugins/visualization/libvisual_plugin.so
-%{_libdir}/%{name}/plugins/audio_filter/libdtstfloat32_plugin.so
-%{_libdir}/%{name}/plugins/codec/libcrystalhd_plugin.so
-%{_libdir}/%{name}/plugins/demux/libgme_plugin.so
+##%{_libdir}/%{name}/plugins/audio_filter/libdtstfloat32_plugin.so
+##%{_libdir}/%{name}/plugins/codec/libcrystalhd_plugin.so
+##%{_libdir}/%{name}/plugins/demux/libgme_plugin.so
%{_libdir}/%{name}/%{name}-cache-gen
%{_mandir}/man1/%{name}*.1*

```

Beware! The following plugins are no longer available:

```

File not found:
/home/scx/rpmbuild/BUILDROOT/vlc-2.2.5.1-2.1.el7.x86_64/usr/lib64/vlc/plugins/access/librdp_plugin.so
File not found:
/home/scx/rpmbuild/BUILDROOT/vlc-2.2.5.1-2.1.el7.x86_64/usr/lib64/vlc/plugins/audio_filter/libdtstfloat32_plugin.so
File not found:
/home/scx/rpmbuild/BUILDROOT/vlc-2.2.5.1-2.1.el7.x86_64/usr/lib64/vlc/plugins/codec/libcrystalhd_plugin.so
File not found:
/home/scx/rpmbuild/BUILDROOT/vlc-2.2.5.1-2.1.el7.x86_64/usr/lib64/vlc/plugins/demux/libgme_plugin.so

```

What's worse, without DTS 7 I hit the following error:

```
In file included from ../include/vlc_picture.h:36:0,
    from ../include/vlc_subpicture.h:34,
    from ../include/vlc_spu.h:29,
    from ../include/vlc_vout_osd.h:29,
    from ../include/vlc_input.h:39,
    from ../include/vlc_playlist.h:31,
    from libvlc-module.c:37:
../include/vlc_atomic.h:33:25: fatal error: stdatomic.h: No such file or directory
# include <stdatomic.h>
    ^
compilation terminated.
```

As you can see, we don't have much choice:

```
# yum -q --disableplugin='priorities' --enablerepo='epel-testing' provides '*/stdatomic.h'
avr-gcc-4.9.2-1.el7.x86_64 : Cross Compiling GNU GCC targeted at avr
Repo      : epel
Matched from:
Filename  : /usr/lib/gcc/avr/4.9.2/include/stdatomic.h
```

```
compat-gcc-44-c++-4.4.7-8.el7.x86_64 : C++ support for compatibility compiler
Repo      : rhel-7-server-rpms
Matched from:
Filename  : /usr/include/c++/4.4.7/stdatomic.h
```

```
llvm-private-devel-3.9.1-9.el7.i686 : Libraries and header files for LLVM
Repo      : rhel-7-server-optional-rpms
Matched from:
Filename  : /usr/lib/clang/3.9.1/include/stdatomic.h
```

```
llvm-private-devel-3.9.1-9.el7.x86_64 : Libraries and header files for LLVM
Repo      : rhel-7-server-optional-rpms
Matched from:
Filename  : /usr/lib64/clang/3.9.1/include/stdatomic.h
```

llvm-private-devel-5.0.0-3.el7.i686 : Libraries and header files for LLVM
Repo : rhel-7-server-optional-rpms
Matched from:
Filename : /usr/lib/clang/5.0.0/include/stdatomic.h

llvm-private-devel-5.0.0-3.el7.x86_64 : Libraries and header files for LLVM
Repo : rhel-7-server-optional-rpms
Matched from:
Filename : /usr/lib64/clang/5.0.0/include/stdatomic.h

llvm-private-devel-6.0.1-2.el7.i686 : Libraries and header files for LLVM
Repo : rhel-7-server-optional-rpms
Matched from:
Filename : /usr/lib/clang/6.0.1/include/stdatomic.h

llvm-private-devel-6.0.1-2.el7.x86_64 : Libraries and header files for LLVM
Repo : rhel-7-server-optional-rpms
Matched from:
Filename : /usr/lib64/clang/6.0.1/include/stdatomic.h

llvm-private-devel-7.0.1-1.el7.i686 : Libraries and header files for LLVM
Repo : rhel-7-server-optional-rpms
Matched from:
Filename : /usr/lib/clang/7.0.1/include/stdatomic.h

llvm-private-devel-7.0.1-1.el7.x86_64 : Libraries and header files for LLVM
Repo : rhel-7-server-optional-rpms
Matched from:
Filename : /usr/lib64/clang/7.0.1/include/stdatomic.h

mingw32-gcc-4.9.3-1.el7.x86_64 : MinGW Windows cross-compiler (GCC) for C for
: the win32 target
Repo : epel
Matched from:
Filename : /usr/lib/gcc/i686-w64-mingw32/4.9.3/include/stdatomic.h

mingw64-gcc-4.9.3-1.el7.x86_64 : MinGW Windows cross-compiler (GCC) for C for
: the win64 target

Repo : epel

Matched from:

Filename : /usr/lib/gcc/x86_64-w64-mingw32/4.9.3/include/stdatomic.h

root-clang-6.18.02-1.el7.x86_64 : Cling C++ interpreter

Repo : epel

Matched from:

Filename : /usr/share/root/clang/lib/clang/5.0.0/include/stdatomic.h

devtoolset-7-gcc-7.3.1-5.13.el7.x86_64 : GCC version 7

Repo : @rhel-7-server-devtools-rpms

Matched from:

Filename : /opt/rh/devtoolset-7/root/usr/lib/gcc/x86_64-redhat-linux/7/include/stdatomic.h

So, either LLVM/Clang or GCC from DTS.
