

LiveCode 6.6.2 Release Notes

Table of contents

Overview

Known issues

Platform support

Windows

Linux

Mac

Setup

Installation

Uninstallation

Reporting installer issues

Activation

Multi-user and network install support (4.5.3)

Command-line installation

Command-line activation

Proposed changes

Engine changes

Normal resizeModeQuality is slow

Some filesystem entries in the root of a volume on Mac report as files when they are really folders.

Memory leak in bitmap effects with spread of non-zero radius (e.g. spread 100%, radius 1; spread 50%, radius 2).

Specific bug fixes (6.6.2)

Dictionary changes

Previous Release Notes

Overview

This document describes all the changes that have been made for LiveCode 6.6.2, including bug fixes and new syntax.

Known issues

- The installer will currently fail if you run it from a network share on Windows. Please copy the installer to a local disk before launching on this platform.

Platform support

The engine supports a variety of operating systems and versions. This section describes the platforms that we ensure the engine runs on without issue (although in some cases with reduced functionality).

Windows

The engine supports the following Windows OSes:

- Windows XP SP2 and above
- Windows Server 2003
- Windows Vista SP1 and above (both 32-bit and 64-bit)
- Windows 7 (both 32-bit and 64-bit)
- Windows Server 2008
- Windows 8.x (Desktop)

Note: On 64-bit platforms the engine still runs as a 32-bit application through the WoW layer.

Linux

The linux engine requires the following:

- 32-bit installation, or a 64-bit linux distribution that has a 32-bit compatibility layer
- 2.4.x or later kernel
- X11R5 capable Xserver running locally on a 24-bit display
- glibc 2.3.2 or later
- gtk/gdk/glib (optional – required for native theme support)
- pango/xfnt (optional – required for pdf printing, anti-aliased text and unicode font support)
- lcms (optional – required for color profile support in JPEGs and PNGs)
- gksu (optional – required for elevate process support)

Note: The optional requirements (except for gksu and lcms) are also required by Firefox and Chrome, so if your linux distribution runs one of those, it will run the engine.

Note: If the optional requirements are not present then the engine will still run but the specified features will be disabled.

Note: LiveCode and standalones it builds may work on remote Xservers and in other bit-depths, however this mode of operation is not currently supported.

Mac

The Mac engine supports:

- 10.5.8 and later (Leopard) on Intel and PowerPC
- 10.6.x (Snow Leopard) on Intel
- 10.7.x (Lion) on Intel
- 10.8.x (Mountain Lion) on Intel
- 10.9.x (Mavericks) on Intel

Note: *The engine runs as a 32-bit application regardless of the capabilities of the underlying processor.*

Setup

Installation

Each distinct version has its own complete folder – multiple versions will no longer install side-by-side: on Windows (and Linux), each distinct version will gain its own start menu (application menu) entry; on Mac, each distinct version will have its own app bundle.

The default location for the install on the different platforms when installing for 'all users' are:

- Windows: <x86 program files folder>/RunRev/ LiveCode 6.6.2
- Linux: /opt/runrev/livecode-6.6.2
- Mac: /Applications/ LiveCode 6.6.2.app

The default location for the install on the different platforms when installing for 'this user' are:

- Windows: <user roaming app data folder>/RunRev/Components/LiveCode 6.6.2
- Linux: ~/.runrev/components/livecode-6.6.2
- Mac: ~/Applications/ LiveCode 6.6.2.app

Note: *If your linux distribution does not have the necessary support for authentication (gksu) then the installer will run without admin privileges so you will have to manually run it from an admin account to install into a privileged location.*

Uninstallation

On Windows, the installer hooks into the standard Windows uninstall mechanism. This is accessible from the appropriate pane in the control panel.

On Mac, simply drag the app bundle to the Trash.

On Linux, the situation is currently less than ideal:

- open a terminal
- `cd` to the folder containing your rev install. e.g.

```
cd /opt/runrev/livecode-6.6.2
```

- execute the `.setup.x86` file. i.e.

```
./ .setup.x86
```

- follow the on-screen instructions.

Reporting installer issues

If you find that the installer fails to work for you then please file a bug report in the RQCC or email support@runrev.com so we can look into the problem.

In the case of failed install it is vitally important that you include the following information:

- Your platform and operating system version
- The location of your home/user folder
- The type of user account you are using (guest, restricted, admin etc.)
- The installer log file located as follows:
 - **Windows 2000/XP:** <documents and settings folder>/<user>/Local Settings/

- **Windows Vista/7:** <users folder>/<user>/AppData/Local/RunRev/Logs
- **Linux:** <home>/runrev/logs
- **Mac:** <home>/Library/Application Support/Logs/RunRev

Activation

The licensing system ties your product licenses to a customer account system, meaning that you no longer have to worry about finding a license key after installing a new copy of LiveCode. Instead, you simply have to enter your email address and password that has been registered with our customer account system and your license key will be retrieved automatically.

Alternatively it is possible to activate the product via the use of a specially encrypted license file. These will be available for download from the customer center after logging into your account. This method will allow the product to be installed on machines that do not have access to the internet.

Multi-user and network install support (4.5.3)

In order to better support institutions needing to both deploy the IDE to many machines and to license them for all users on a given machine, a number of facilities have been added which are accessible by using the command-line.

Note: *These features are intended for use by IT administrators for the purposes of deploying LiveCode in multi-user situations. They are not supported for general use.*

Command-line installation

It is possible to invoke the installer from the command-line on both Mac and Windows. When invoked in this fashion, no GUI will be displayed, configuration being supplied by arguments passed to the installer.

On both platforms, the command is of the following form:

```
<exe> install noui options
```

Here *options* is optional and consists of one or more of the following:

-allusers	Install the IDE for all users. If not specified, the install will be done for the current user only.
-desktopshortcut	Place a shortcut on the Desktop (Windows-only)
-startmenu	Place shortcuts in the Start Menu (Windows-only)
-location <i>location</i>	The location to install into. If not specified, the location defaults to those described in the <i>Layout</i> section above.
-log <i>logfile</i>	A file to place a log of all actions in. If not specified, no log is generated.

Note that the command-line variant of the installer does not do any authentication. Thus, if you wish to install to an admin-only location you will need to be running as administrator before executing the command. As the installer is actually a GUI application, it needs to be run slightly differently from other command-line programs.

In what follows <installerexe> should be replaced with the path of the installer executable or app (inside the DMG) that has been downloaded.

On Windows, you need to do:

```
start /wait <installerexe> install noui options
```

On Mac, you need to do:

```
"<installerexe>/Contents/MacOS/installer" install noui options
```

On both platforms, the result of the installation will be written to the console.

Command-line activation

In a similar vein to installation, it is possible to activate an installation of LiveCode for all-users of that machine by using the command-line. When invoked in this fashion, no GUI will be displayed, activation being controlled by any arguments passed.

On both platforms, the command is of the form:

```
<exe> activate -file license -passphrase phrase
```

This command will load the manual activation file from *license*, decrypt it using the given *passphrase* and then install a license file for all users of the computer. Manual activation files can be downloaded from the 'My Products' section of the RunRev customer accounts area.

This action can be undone using the following command:

```
<exe> deactivate
```

Again, as the LiveCode executable is actually a GUI application it needs to be run slightly differently from other command-line programs.

In what follows <livecodeexe> should be replaced with the path to the installed LiveCode executable or app that has been previously installed.

On Windows, you need to do:

```
start /wait <livecodeexe> activate -file license -passphrase phrase
start /wait <livecodeexe> deactivate
```

On Mac, you need to do:

```
"<livecodeexe>/Contents/MacOS/LiveCode" activate -file license -passphrase phrase
"<livecodeexe>/Contents/MacOS/LiveCode" deactivate
```

On both platforms, the result of the activation will be written to the console.

Proposed changes

The following changes are likely to occur in the next or subsequent non-maintenance release:

- The engine (both IDE and standalone) **will require** gtk, gdk, glib, pango and xft on Linux

Engine changes

Normal resizeModeQuality is slow (6.6.2)

As part of the update to image filters in the 6.6 release, we improved the quality of the resizing and rotating images when the resizeModeQuality was set to "normal". This brought all platforms into line with the way things were on Mac pre 6.5.

However, this change in image filter meant that resizing of images was more processor intensive and the resulting output was much smoother. As developers using the "normal" resizeModeQuality relied on the time and output of the resize operation, we've decided to temporarily revert the "normal" behavior back to how things were in 6.5.

This change is only temporary, with there being plans to fully address the issue in a future release where the resizeModeQuality options will undergo an overhaul in order to provide the developer with greater flexibility.

Some filesystem entries in the root of a volume on Mac report as files when they are really folders. (6.6.2)

The 'net', 'home' and 'dev' folders do not report as folders in when using 'the folders' - they appear as files instead.

Memory leak in bitmap effects with spread of non-zero radius (e.g. spread 100%, radius 1; spread 50%, radius 2). (6.6.2)

Specific bug fixes (6.6.2)

(bug fixes specific to the current build are highlighted in bold, reverted bug fixes are stricken through)

- 12443 **import snapshot crashes LiveCode**
- 12434 **iOS device builds rejected from app store due to XCode version in plist**
- 12418 **Mail attachment from app file fails**
- 12414 **Setting usePixelScaling causes infinite window reopening loop on Mac.**
- 12408 **Encryption commands do not work for iOS device builds**
- 12385 **Crash when modifying an unopened field.**
- 12382 **Normal resizeModeQuality is slow**
- 12365 **After "putting" return into a Field**
- 12350 **The fontStyle is incorrect on iOS**
- 12341 **Fix vGrid rendering for non-fixed-width table field mode.**
- 12319 **Drag and drop going wrong when Display switched to 150%**
- 12294 **Crash and flaky behavior at certain points.**
- 12286 **Maximizing a window where only the title-bar is on-screen causes a crash on Mac.**
- 12265 **Rounded rects are drawn incorrectly when using the image editing tools with a linesize 1**
- 12239 **Magnification window shows corrupted image.**
- 12237 **Attempt to attach to the launching console on Windows (if any) in standalones.**
- 12236 **Dropdown menus are clipped on Windows when text scale > 100%**
- 12235 **Tooltips clipped on Windows when text scaling > 100%**
- 12227 **When Windows screen display is set to 125% popups sometimes break**

- 12223 Windows backdrop doesn't cover the full desktop area when displayed on a high-dpi screen.
- 12210 revBrowserSnapshot not working on Windows with IE9+
- 12206 Buttons of menu type can't be inspected if first created object
- 12200 Some filesystem entries in the root of a volume on Mac report as files when they are really folders.
- 12185 Standalone engine crashes when -ui specified on Linux.
- 12183 Clicking in the scrollbar well doesn't work if the click is too short.
- 12182 'the pageRanges' doesn't work on fields with more than 64K chars.
- 12175 Setting the usePixelScaling property doesn't update all windows on Mac.
- 12173 Styling does not work for certain iOS fonts
- 12170 Non-existent command line parameter variables (\$) behave strangely with split.
- 12146 setting tabstops to 2 equal numbers and then turning vGrid on hangs LC
- 12125 put the executionContexts crashes LiveCode server
- 12107 exit causes livecode server to crash
- 12105 Livecode server crashed if you call paramCount()
- 12101 Graphics missing from imported Hypercard stack
- 12099 On awakening Android device from sleep
- 12088 The script editor doesn't scroll horizontally as text is entered
- 12058 The backdrop on Windows is always black
- 12044 Opaque groups do not completely draw their backgrounds when acceleratedRendering is enabled
- 12037 Slow-down in setting contents of fields on Windows since 6.1.3.
- 12027 On Retina Mac's scrollbars with small thumbs render smaller than they should.
- 12020 Caret is too thin on Retina displays.
- 12010 Windows engine hangs after multiple stack redraws.
- 12008 import screen snapshot on iOS creates image of incorrect size.
- 12006 HTTP (HTML) URLs encoded with anything other than a native character set are returned incorrectly
- 11975 "import snapshot from rect ..." only imports part of the screen on Windows
- 11964 Spacing is incorrect for Windows scaled text
- 11933 effective textColor returns empty value for styled text
- 11920 Memory leak in bitmap effects with spread of non-zero radius (e.g. spread 100%)
- 11904 Italic characters with underhang are clipped on windows
- 11895 mobileComposeMail missing attachment in Android (Android Mail)
- 11884 Stoked graphics clipped when printed
- 11860 uuid and randomBytes functions don't work on iOS when Encryption support is not included
- 11748 Crash when putting an empty string into an XML node using PutIntoXMLNode.
- 11708 Android apps only partially drawn after rotating device during lock screen
- 11690 Once large scripts start scrolling the script editor
- 11689 ResizeControl is not sent when resizing images
- 11662 Round buttons are drawn incorrectly
- 11603 Backdrop not displayed on Linux
- 11370 Anti-aliasing inconsistent for 1 pixel lines and curves
- 11072 magnify and edit image crashes LC

- 8041 **Only allow interaction with scrollbars on groups in browse mode.**
- 6400 **On Mac**
- 2627 **The machine() function returns "unknown" under Mac OSX**

Dictionary changes

- The entry for **create** (*command*) has been updated.
- The entry for **do** (*command*) has been updated.
- The entry for **export snapshot** (*command*) has been updated.
- The entry for **find** (*command*) has been updated.
- The entry for **plain** (*keyword*) has been updated.
- The entry for **HTMLText** (*property*) has been updated.
- The entry for **pageIncrement** (*property*) has been updated.
- The entry for **textStyle** (*property*) has been updated.

Previous Release Notes

6.6.2 Release Notes	http://downloads.livecode.com/livecode/6_6_2/LiveCodeNotes-6_6_2.pdf
6.6.1 Release Notes	http://downloads.livecode.com/livecode/6_6_1/LiveCodeNotes-6_6_1.pdf
6.6.0 Release Notes	http://downloads.livecode.com/livecode/6_6_0/LiveCodeNotes-6_6_0.pdf
6.5.2 Release Notes	http://downloads.livecode.com/livecode/6_5_2/LiveCodeNotes-6_5_2.pdf
6.5.1 Release Notes	http://downloads.livecode.com/livecode/6_5_1/LiveCodeNotes-6_5_1.pdf
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