

System Requirements

LabVIEW 2018 for Linux has the following requirements:

Linux	Run-Time Engine	Development Environment
Processor	Pentium 4 G1 (or equivalent) or later	Pentium 4 G1 (or equivalent) or later
RAM	256 MB	1 GB
Screen Resolution	1024 x 768 pixels	1024 x 768 pixels
Operating System	Linux kernel 2.6x or 3.x GNU C Library (glibc) Version 2.11 or later for the Intel x86_64 architecture	openSUSE LEAP 42.2 openSUSE LEAP 42.3 Red Hat Enterprise Linux Desktop + Workstation 6.x Red Hat Enterprise Linux Desktop + Workstation 7.x CentOS 7
Disk Space	98 MB	1.1 GB for the complete installation
Color Palette	N/A	LabVIEW and the <i>LabVIEW Help</i> contain 16-bit color graphics. LabVIEW requires a minimum color palette setting of 16-bit color.
Temporary Files Directory	N/A	LabVIEW uses a directory for storing temporary files. NI recommends that you have several megabytes of disk space available for this temporary directory.
Adobe Reader	N/A	You must have Adobe Reader installed to search PDF versions of all LabVIEW manuals.
Note <ul style="list-style-type: none">• LabVIEW 2018 for Linux is available only in 64-bit.• LabVIEW and LabVIEW Run-Time Engine require 64-bit processors which support SSE2 instructions.		

Installation Instructions

Complete the following steps to install and activate LabVIEW for Linux.

Are you installing LabVIEW for the first time? Insert and mount the LabVIEW installation media. As the root user in the mounted directory, enter `sh ./INSTALL` to install LabVIEW in the `/usr/local` directory.

To install LabVIEW modules and toolkits, refer to the readme of each product for installation instructions. The VI Analyzer Toolkits installs with the LabVIEW Professional Development System for Linux.

You can install NI device drivers from ni.com/linuxdrivers.

Are you upgrading from a previous version of LabVIEW? Refer to the *LabVIEW Upgrade Notes* for information about protecting existing VIs and projects before installing a new version of LabVIEW, as well as upgrade and compatibility issues and a complete list of new features in LabVIEW 2018.

Note If you purchased this product with an NI Software Suite or NI Product Bundle, use the installation media that shipped with your purchase to install this product.

Product Security and Critical Updates

Visit ni.com/security for security information about NI products. Visit ni.com/critical-updates for information about critical updates from NI.

Supported Modules and Toolkits

LabVIEW 2018 for Linux supports the following modules and toolkits.

- Control Design and Simulation Module¹
- MathScript RT Module²
- VI Analyzer Toolkit³
- Application Builder³

¹ The Control Design and Simulation Module does not support the System Identification VIs, System Identification Assistant, and Control Design Assistant.

² The MathScript RT Module does not support the libraries class of MathScript RT Module functions.

³ The VI Analyzer Toolkit and Application Builder install with the LabVIEW Professional Development System. For the LabVIEW Full Development System, you can purchase and install the VI Analyzer Toolkit and Application Builder with their own separate media.

Refer to the readme of each product for more information about system requirements, installation instructions, and activation.

Supported Drivers

Refer to the [NI website](http://ni.com) for information about drivers compatible with LabVIEW for Linux. To use hardware with LabVIEW 2018, install the latest version of the driver for the device. Refer to the readme of each driver for more information about system requirements and installation instructions.

Known Issues

You can access the software and documentation known issues list online. Refer to the [NI website](http://ni.com) for an up-to-date list of known issues in LabVIEW 2018.

Bug Fixes

The following items are the IDs and titles of a subset of issues fixed in LabVIEW 2018. This is not an exhaustive list of issues fixed in the current version of LabVIEW. If you have a CAR ID, you can search this list to validate the issue has been fixed.

ID	Fixed Issue
457851	Bundling class data is slower than bundling cluster data.
536763	Pop-up menus can appear only limited number of times before LabVIEW crashes.
630227	LabVIEW incorrectly allows dropping a shared variable into a cluster.
631802	Exporting typedef array of numerics to Excel may crash LabVIEW.
639000	LabVIEW crashes when updating the radix of a numeric control on an Actor Core VI that is running.
643107	Changing the line styles of multiple plots does not work as expecting in XY graphs.
645059	Uninitialized shift registers may cause incorrect type propagation.
648582	Cannot create Express VIs in certain localized versions of LabVIEW.
658587	Rescripting a message for an actor on a Linux RT target results in error 7.
664649	Accessing a DVR and deleting its reference in parallel can, in certain circumstances, cause LabVIEW to crash.
666823	VIs that use channel wires are broken when built into a packed project library.
670440	When dynamically registering events, LabVIEW may behave unexpectedly if an event is fired and unregistered before it is processed.
671753	The LabVIEW Application Builder has the potential to hang when building malleable VIs with subarray or substring inputs.
672120	Malleable VIs may not properly break after you rename a class method that the malleable VI calls when performing class substitution.
678973	Tools?Synchronize with ni.com Icon Library fails in the LabVIEW Icon Editor.

Accessing the Help

Refer to the *LabVIEW Help*, accessible by selecting **Help?LabVIEW Help** from LabVIEW, for information about LabVIEW 2018.

Additions to the LabVIEW Help

The following list contains additional changes to LabVIEW that are not included in the *LabVIEW Help*, the *LabVIEW Upgrade Notes*, or both:

- The Python functions use the new **PythonSessionRefnum** refnum. This refnum is added to the enum type control at `labview\vi.lib\Utility\Data Type\Type Definitions\Refnum Type.ct1`. If you use VI Scripting that checks this type control, you must update your code to handle the new refnum.

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