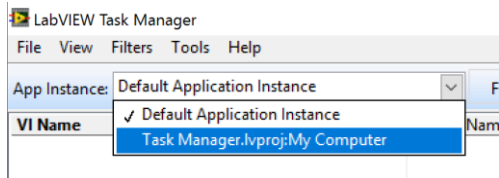


Application Instance



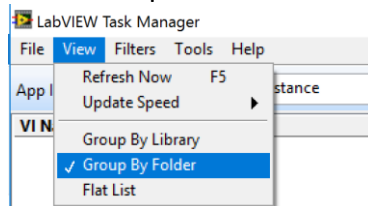
The LabVIEW Task Manager (LVTM) detects all open LabVIEW application instances, but discovers and displays VIs for only the selected instance. Select an application instance from the App Instance dropdown in the toolbar to discover and display VIs in the application instance you care about.

Menu

The menu provides access to various functions and settings of the LVTM.

View

The View menu provides options to set an update speed for refreshing the view and a few view options.



View>>Group by Library

When selected, the Group By Library setting displays all VIs in the selected application instance grouped by the library they belong to. All VIs that are not part of any library are shown under <no parent library>.

VI Name	Library Name	State	Paused?	Hilite?	Reentrancy	FP Behavior	Code Size	Data Size	VI Path
<no parent library>									
Balloon Engine.vlib:Balloon.vclass									
Balloon Engine.vlib:Engine.vclass									
Abort Balloon Engine.vi	Balloon Engine.vlib:Engine.vclass	Running			Non-reentrant	Default	4668	0	C:\Program Files (x86)\National Instru
Add Balloon.vi	Balloon Engine.vlib:Engine.vclass	Running			Non-reentrant	Default	8452	0	C:\Program Files (x86)\National Instru
Balloon Daemon.vi	Balloon Engine.vlib:Engine.vclass	Idle			Non-reentrant	Default	8284	2805	C:\Program Files (x86)\National Instru
Get Engine Instance.vi	Balloon Engine.vlib:Engine.vclass	Running			Non-reentrant	Default	3828	0	C:\Program Files (x86)\National Instru
Balloon Engine.vlib:Symbol Text Balloon.vclass									
Assign Colors.vi	Balloon Engine.vlib:Symbol Text	Idle			Non-reentrant	Default	16940	5464	C:\Program Files (x86)\National Instru
Balloon Panel.vi	Balloon Engine.vlib:Symbol Text	Idle			Non-reentrant	Default	23668	7889	C:\Program Files (x86)\National Instru
Init Symbol Text Balloon.vi	Balloon Engine.vlib:Symbol Text	Idle			Non-reentrant	Default	7756	28672	C:\Program Files (x86)\National Instru
Balloon Engine.vlib:Test Balloon.vclass									
Discover Common TypeDef Callers.vlib									
FindName_Task_Manager.vlib									
LVTM.vlib									
LVTM_Plugin.vclass									
NI_FileType.vlib									
Get File Type.vi	NI_FileType.vlib	Running		N/A	Non-reentrant	Default	13924	0	C:\Program Files (x86)\National Instru
NI_LVConfig.vlib									
NI_PackedLibraryUtility.vlib									
Get Exported File List.vi	NI_PackedLibraryUtility.vlib	Running		N/A	Non-reentrant	Default	6036	0	C:\Program Files (x86)\National Instru
RHA.vlib									
EnumerateAllPages.vi	RHA.vlib	Running			Non-reentrant	Default	24812	0	C:\Project\lvtm_find-filter\HelpAbou
RHA_dialog.vi	RHA.vlib	Running			Non-reentrant	Modal	32044	0	C:\Project\lvtm_find-filter\HelpAbou
RHA_dialog_gvdi.vi	RHA.vlib	Running			Non-reentrant	Modal	1228	0	C:\Project\lvtm_find-filter\HelpAbou
TCP_Server.vclass									
TestVis.vlib:Test Class.vclass									

View>>Group by Folder

When selected, the Group By Folder setting displays all VIs in the selected application instance with their folder hierarchy on disk. Like the Files view in the LabVIEW Project, this view makes it easy to see where all the project dependencies live on disk.

VI Name	Library Name	State	Paused?	HiLite?	Reentrancy	FP Behavior	Code Size	Data Size	VI Path
C:\Program Files (x86)\National Instruments\LabVIEW 2013\user.lib									
_OpenG.lib									
_appcontrol.lib									
Current VIs Parents Ref_		Running			Non-reentrant	Default	3420	0	C:\Program Files (x86)\National Instru
array									
array.lib									
comparison									
comparison.lib									
file									
file.lib									
SmartBalloon									
Balloon									
Balloon Generic									
Engine									
Abort Balloon Engine.vi	Balloon Engine\lib\Engine.vi	Running			Non-reentrant	Default	4668	0	C:\Program Files (x86)\National Instru
Add Balloon.vi	Balloon Engine\lib\Engine.vi	Running			Non-reentrant	Default	8432	0	C:\Program Files (x86)\National Instru
Balloon Daemon.vi	Balloon Engine\lib\Engine.vi	Idle			Non-reentrant	Default	8284	2805	C:\Program Files (x86)\National Instru
Get Engine Instance.vi	Balloon Engine\lib\Engine.vi	Running			Non-reentrant	Default	3828	0	C:\Program Files (x86)\National Instru
Symbol Text Balloon									
Assign Colors.vi	Balloon Engine\lib\Symbol Text	Idle			Non-reentrant	Default	16940	5464	C:\Program Files (x86)\National Instru
Balloons Panel.vi	Balloon Engine\lib\Symbol Text	Idle			Non-reentrant	Default	29668	7889	C:\Program Files (x86)\National Instru
Init Symbol Text Balloon.vi	Balloon Engine\lib\Symbol Text	Idle			Non-reentrant	Default	7756	28672	C:\Program Files (x86)\National Instru
vi.lib									

View>>Flat List

When selected, the Flat List setting displays all VIs in the selected application instance as a list. This view can help sorting the view by different properties of the VIs, by clicking on the column headers.

VI Name	Library Name	State	Paused?	HiLite?	Reentrancy	FP Behavior	Code Size	Data Size	VI Path
Delete Elements from 2D Array (Variant)_ogtk.vi		Running			Preallocated clone	Default	11084	0	C:\Program Files (x86)\National Instru
Delete Tree Item if No Longer Needed.vi	LVTM\lib	Running			Non-reentrant	Default	10340	0	C:\Projects\lvtm_find-filter\lvtm
Details Display Dialog.vi		Running			Non-reentrant	Modal	48380	0	C:\Program Files (x86)\National Instru
Directory of Top Level VIs.vi		Idle			Non-reentrant	Default	10196	2172	C:\Program Files (x86)\National Instru
Discover ALL VIs in Memory.vi	LVTM\lib	Running			Non-reentrant	Default	22804	0	C:\Projects\lvtm_find-filter\lvtm
DiscoverCommonTypeDefCallers.vi	DiscoverCommonTypeDefCallers	Bad			Non-reentrant	Default	16604	41796	C:\Projects\lvtm_find-filter\lvtm
DiscoverTypeDef.vi	DiscoverCommonTypeDefCallers	Idle			Non-reentrant	Default	15140	3424	C:\Projects\lvtm_find-filter\lvtm
Dispatch_FindOfFilterOnName.vi	FindName_Task_Manager\lib	Idle			Non-reentrant	Default	10036	2981	C:\Projects\lvtm_find-filter\lvtm
Draw Flattened Pomap.vi		Idle			Non-reentrant	Default	31804	5140	C:\Program Files (x86)\National Instru
EnumerateAllPages.vi	RHA\lib	Running			Non-reentrant	Default	24812	0	C:\Projects\lvtm_find-filter\lvtm
Error Cluster From Error Codes.vi		Running			Shared clone	Default	5620	0	C:\Program Files (x86)\National Instru
Error Cluster From Error Codes.vi:5160001		Running			Shared clone	Default	5620	0	C:\Program Files (x86)\National Instru
Error Cluster From Error Codes.vi:5160002		Running			Shared clone	Default	5620	0	C:\Program Files (x86)\National Instru
Error Code Database.vi		Running		N/A	Non-reentrant	Default	3292	0	C:\Program Files (x86)\National Instru
Error_ClearError.vi		Running			Non-reentrant	Default	1836	0	C:\Program Files (x86)\National Instru
Error_FilterMulti.vi		Running			Non-reentrant	Default	2756	0	C:\Program Files (x86)\National Instru
Error_FilterSingle.vi		Running			Non-reentrant	Default	2324	0	C:\Program Files (x86)\National Instru
Escape String.vi	NLLVConfig\lib	Running			Non-reentrant	Default	7060	0	C:\Program Files (x86)\National Instru
EXT Changed_ogtk.vi		Running			Preallocated clone	Default	1844	0	C:\Program Files (x86)\National Instru
EXT Changed_ogtk.vi		Running			Preallocated clone	Default	1844	0	C:\Program Files (x86)\National Instru
Fade InPlace.vi	Balloon Engine\lib\Balloons\lvtm	Idle			Non-reentrant	Default	5232	2224	C:\Program Files (x86)\National Instru
Fade.vi	Balloon Engine\lib\Balloons\lvtm	Idle			Non-reentrant	Default	11692	3828	C:\Program Files (x86)\National Instru
FileVersionInfo.vi		Running			Non-reentrant	Default	11220	0	C:\Program Files (x86)\National Instru
Filter & Build Dependent TypeDefs&Parents.vi	DiscoverCommonTypeDefCallers	Idle			Non-reentrant	Default	8780	2188	C:\Projects\lvtm_find-filter\lvtm
Filter 1D Array (Boolean)_ogtk.vi		Running			Preallocated clone	Default	5076	0	C:\Program Files (x86)\National Instru
Filter 1D Array (Boolean)_ogtk.vi		Running			Preallocated clone	Default	5076	0	C:\Program Files (x86)\National Instru
Filter 1D Array (CDB)_ogtk.vi		Running			Preallocated clone	Default	5076	0	C:\Program Files (x86)\National Instru

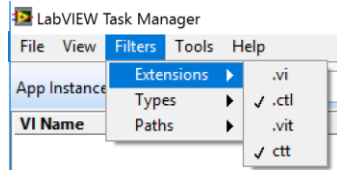
Filters

The Filters menu items provides several settings for filtering out VIs. Once all VIs in memory, in the selected application instance are displayed in the tree view, certain dynamic properties of all these VIs, like the state, paused status, execution highlight status, data size, etc., are occasionally checked and updated. The more VIs that need to be checked, the more resources are tied up, and the longer each refresh cycle takes.

Filtering out VIs that you don't care about tremendously improves the performance of the LVTM. Select (v) the filter options that you want to apply for filtering VIs out of the view. All VIs that match these filters will be ignored.

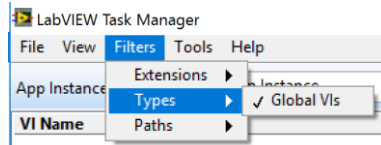
Filters>>Extensions

Select (v) the file extensions that you want to filter out of the view. All files with the selected extensions will be ignored.



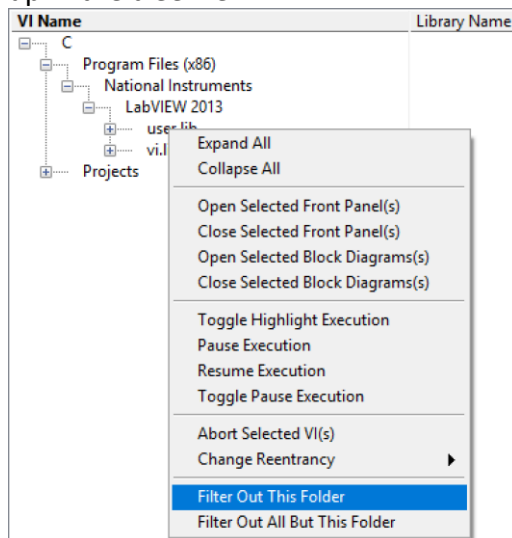
Filters>>Types

Select (✓) the VI types that you want to filter out of the view. All VIs of the selected type will be ignored.



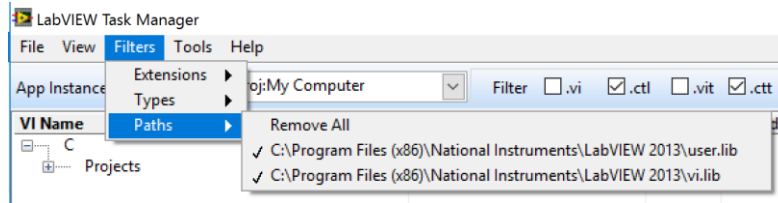
Filters>>Paths

When the view is set to Group By Folder, you can right click any folder and select Filter Out This Folder, which adds that folder to the list of folders to be filtered out. Or you can right click a folder and select Filter Out All But This Folder, which will add all folders currently in view, other than the right clicked one, to the list of folders to be filtered out. Any VIs from these filtered out folders will not show up in the tree view.

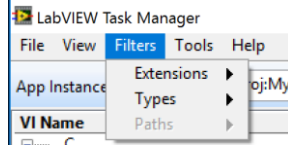


If one or more paths have been selected to be filtered out, they will show up checked under the Filters>>Paths menu. Clicking any one of these checked folders will remove them from the list of filtered out folders, and will immediately update the view to show any VIs from that folder or any of its subfolders.

Selecting Remove All will remove all filtered out paths, which will essentially disable path based filtering for the VIs.

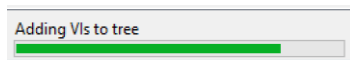
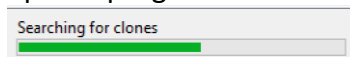


If there are no paths set to be filtered out, the Paths menu item is disabled.



Progress Update

Any time any changes are made to the filters or to the view, the view is refreshed. Discovering all VIs in memory along with their clones, and then updating the tree view can take several seconds, depending on how many VIs are in memory in the selected application instance. A progress bar at the bottom right of the screen, in the status bar, shows the discovery and update progress.



If any settings are changed before the refresh is completed, this progress is interrupted and a new refresh cycle, with the new settings begins.

Toolbar

LVTM provides several operations to be performed on one or more VIs in the tree view. These options may be selected from the toolbar buttons at the top of the screen.



Open Front Panel

Close Front Panel

Open Block Diagram

Close Block Diagram

Highlight/DoNotHighlight Execution

Pause Execution

Resume Execution

Toggle Execution

Abort

These options may also be selected from the right click menu.

