




# RPM & RPM .specs Files Management & Decoding Support

Description	Keystroke	Function	Note
<b>RPM Package Manager Files</b> o <a href="#">Edit .rpm files</a> o <a href="#">Edit RPM .spec file</a> • <a href="#">rpmlint .spec file</a> • <a href="#">build the RPM</a> o <a href="#">RPM references</a> See <a href="#">RPM Spec file format</a> See <a href="#">🔗 File-mnngt</a> ➡  Last updated on:	The following external package provides the ability to work with Linux RPM package and specification files. PEL supports the following: 📦 The <a href="#">archive-rpm</a> external package, <a href="#">🔗</a> activated by <b>pel-use-archive-rpm</b> user-option set to <b>t</b> . Setting this automatically sets the next. This mode provides the ability to open a .rpm file to display its meta data and each of the compressed files. 📦 The <a href="#">rpm-spec-mode</a> external package, <a href="#">🔗</a> activated by <b>pel-use-rpm-spec-mode</b> user-option set to <b>t</b> . This implements a major-mode for the RPM .spec files: it provides coloration and navigation commands. 👉 Even though the RPM package Manager is mostly used under Linux, the packages here can be used under other Unix-like operating systems.  👉 The <b>pel-show-rpm-providing-file</b> command (bound to <b>&lt;f11&gt; f ? r</b> ) prints the name of the RPM that provided the file in the current buffer.		
<b>Open this PDF file.</b> See also: <a href="#">🔗 Help/Info</a>	<b>&lt;f11&gt; SPC M-R &lt;f1&gt;</b>	<b>(pel-help-pdf &amp;optional OPEN-WEB-PAGE)</b>	Open the <b>M Rpm</b> local PDF. If the prefix argument (like <b>C-u</b> or <b>M--</b> ) is used, then it opens the remote GitHub hosted raw PDF instead. If the <b>pel-flip-help-pdf-arg</b> user-option is set it's the other way around.
	<b>&lt;f12&gt; &lt;f1&gt;</b>		
<b>Customize RPM Support</b> See also: <a href="#">🔗 Customize</a>	<b>&lt;f11&gt; SPC M-R &lt;f2&gt;</b>	<b>(pel-rpm-customize-pel &amp;optional OTHER-WINDOW)</b>	Customize PEL rpm support. Use it to activate/de-activate various grep tools. • If OTHER-WINDOW is non-nil (use <b>C-u</b> ) , display in other window.
	<b>&lt;f12&gt; &lt;f2&gt;</b>		
<b>Editing .rpm files</b>	📦 Requires the <a href="#">archive-rpm</a> external package, <a href="#">🔗</a> activated by <b>pel-use-archive-rpm</b> user-option set to <b>t</b> .		
<b>Help - summary of available commands</b>	<ul style="list-style-type: none"><li>• <b>?</b></li><li>• <b>h</b></li><li>• <b>C-h m</b></li><li>• <b>&lt;f1&gt; m</b></li><li>• <b>&lt;f11&gt; ? k m</b></li></ul>	<b>(describe-mode &amp;optional BUFFER)</b>	Display documentation of current major mode and minor modes.
<b>Mark file for later command</b>	<b>m</b>	<b>(archive-mark P)</b>	In archive mode, mark this member for group operations. • With a prefix argument, mark that many members. • Use <b>M-x archive-unmark-all-files</b> to remove all marks.
<b>Unmark file</b>	<b>u</b>	<b>(archive-unflag P)</b>	In archive mode, un-mark this member if it is marked to be deleted. • With a prefix argument, un-mark that many files forward.
	<b>a</b>	<b>(archive-alternate-display)</b>	Toggle alternative display. To avoid very long lines archive mode does not show all information. This function changes the set of information shown for each files. ⚠️ this does not seem to work.
<b>View current file</b>	<b>v</b>	<b>(archive-view)</b>	View the file of the current line. No change allowed.
<b>Open current file</b>	<ul style="list-style-type: none"><li>• <b>e</b></li><li>• <b>f</b></li><li>• <b>RET</b></li></ul>	<b>(archive-extract &amp;optional OTHER-WINDOW-P EVENT)</b>	Extract this entry of the archive into its own buffer. • Modifications are allowed <b>but</b> saving them does not work. ⚠️
<b>Open current file in other window</b>	<ul style="list-style-type: none"><li>• <b>E</b></li><li>• <b>o</b></li></ul>	<b>(archive-extract-other-window)</b>	In archive mode, find (open) this file member in another window.
<b>Copy file(s) to specified directory</b>	<b>C</b>	<b>(archive-copy-file FILES NEW-NAME)</b>	Copy FILES to a location specified by NEW-NAME. • Copy current file, prompting for destination. • If several files are marked, copy them all to the destination directory.
<b>Change group for marked files</b> ⚠️	<b>G</b>	<b>(archive-chgrp-entry NEW-GID)</b>	Change the group of all marked or this member. ⚠️ this does not seem to work.
<b>Change mode</b> ⚠️	<b>M</b>	<b>(archive-chmod-entry NEW-MODE)</b>	Change the protection bits associated with all marked or this member. The new protection bits can either be specified as an octal number or as a relative change like "g+rw" as for chmod(2). ⚠️ this does not seem to work.
<b>Change owner</b> ⚠️	<b>O</b>	<b>(archive-chown-entry NEW-UID)</b>	Change the owner of all marked or this member. ⚠️ this does not seem to work.
<b>Mark file for deletion</b>	<ul style="list-style-type: none"><li>• <b>d</b></li><li>• <b>C-d</b></li></ul>	<b>(archive-flag-deleted P &amp;optional TYPE)</b>	In archive mode, mark this member to be deleted from the archive. • With a prefix argument, mark that many files.
<b>Delete all files marked for deletion</b>	<b>x</b>	<b>(archive-expunge)</b>	After prompting for confirmation, delete all files marked for deletion.
<b>Navigate in RPM-Archive buffer</b>	The following commands select a new file line in the buffer.		
<b>Move down one line</b>	<ul style="list-style-type: none"><li>• <b>SPC</b></li><li>• <b>n</b></li><li>• <b>C-n</b></li><li>• <b>&lt;Down&gt;</b></li></ul>	<b>(archive-next-line P)</b>	Down one line. • With numeric prefix argument, move down that many lines.
<b>Move up one line</b>	<ul style="list-style-type: none"><li>• <b>S-SPC</b></li><li>• <b>p</b></li><li>• <b>C-p</b></li><li>• <b>&lt;Up&gt;</b></li></ul>	<b>(archive-previous-line P)</b>	Up one line. • With numeric prefix argument, move up that many lines.
<b>Move to beginning of buffer</b>	<ul style="list-style-type: none"><li>• <b>&lt;</b></li><li>• <b>M-&lt;</b></li></ul>	<b>(beginning-of-buffer &amp;optional ARG)</b>	Move point to the beginning of buffer.
<b>Move to end of buffer</b>	<ul style="list-style-type: none"><li>• <b>&gt;</b></li><li>• <b>M-&gt;</b></li></ul>	<b>(end-of-buffer &amp;optional ARG)</b>	Move point to the end of buffer.
<b>Refresh buffer</b>	<b>g</b>	<b>(revert-buffer &amp;optional IGNORE-AUTO NOCONFIRM PRESERVE-MODES)</b>	Refresh buffer.
<b>Quit</b>	<b>q</b>	<b>(quit-window &amp;optional KILL WINDOW)</b>	Quit Rpm-Archive and bury the window.

Description	Keystroke	Function	Note
<b>Editing RPM .spec files</b> <ul style="list-style-type: none"> <li><a href="#">RPM Spec File Format</a></li> <li><a href="#">RPM Packaging Guide</a></li> <li><a href="#">RPM Spec File @ Red Hat</a></li> </ul>	<div> <div>  Requires the <a href="#">rpm-spec-mode</a> external package,  activated by <a href="#">pel-use-rpm-spec-mode</a> user-option set to <a href="#">t</a>.         </div> <div>  PEL is currently using my fork, installed as a single file. The code in the original repo does not compile with. latest version of Emacs.         </div> </div>		
<b>Open this PDF file.</b> See also: <a href="#">🔗 Help/Info</a>	<f12> <f1>	( <a href="#">pel-rpm-help</a> &optional OPEN-WEB-PAGE)	Open the <b>M Rpm</b> local PDF. If the prefix argument (like <b>C-u</b> or <b>M--</b> ) is used, then it opens the remote GitHub hosted raw PDF instead. If the <b>pel-flip-help-pdf-arg</b> user-option is set it's the other way around.
<b>Customize RPM Support</b> See also: <a href="#">🔗 Customize</a>	<f11> <a href="#">SPC</a> <a href="#">M-R</a> <f2>	(pel-rpm-customize-pel &optional OTHER-WINDOW)	Customize PEL rpm support. Use it to activate/de-activate various grep tools. <ul style="list-style-type: none"> <li>If OTHER-WINDOW is non-nil (use <b>C-u</b>), display in other window.</li> </ul>
	<f12> <f2>		
<b>Customize Emacs Grep Support</b>	<f12> <f3>	(pel-rpm-spec-customize &optional OTHER-WINDOW)	Customize Emacs rpm-spec support. Prompt to load rpm-spec if not already loaded.
<b>Configure</b>			
<b>Toggle adding %attr entry</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">a</a>	(rpm-toggle-add-attr &optional ARG)	Toggle 'rpm-spec-add-attr' user-option. <ul style="list-style-type: none"> <li>When active: Add "%attr" entry for file listings.</li> </ul>
<b>Change build root</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">b</a>	(rpm-change-buildroot-option &optional ARG)	Change the value for buildroot user-option.
<b>Toggle removing build tree</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">c</a>	(rpm-toggle-clean &optional ARG)	Toggle 'rpm-spec-clean' user-option. <ul style="list-style-type: none"> <li>When on: remove the build tree after the packages are made.</li> </ul>
<b>Toggle verifying build dependencies</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">d</a>	(rpm-toggle-nodeps &optional ARG)	Toggle 'rpm-spec-nodeps' user-option. <ul style="list-style-type: none"> <li>When off: verify build dependencies.</li> </ul>
<b>Change source directory</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">f</a>	(rpm-files-group &optional ARG)	Change the source directory.
<b>Toggle embedding GPG signature</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">g</a>	(rpm-toggle-sign-gpg &optional ARG)	Toggle 'rpm-spec-sign-gpg' user-option. <ul style="list-style-type: none"> <li>When on: embed a GPG signature in the package.</li> </ul>
<b>Change time check</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">i</a>	(rpm-change-timecheck-option &optional ARG)	Change the value for timecheck.
<b>Toggle executing build stages</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">n</a>	(rpm-toggle-nobuild &optional ARG)	Toggle 'rpm-spec-nobuild' user-option. <ul style="list-style-type: none"> <li>When on: do not execute any build stages. Useful for testing out spec files.</li> </ul>
<b>Change default owner</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">o</a>	(rpm-files-owner &optional ARG)	Change the default owner for files.
<b>Toggle removal of source &amp; spec after build</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">r</a>	(rpm-toggle-rmsource &optional ARG)	Toggle 'rpm-spec-rmsource' user-option. <ul style="list-style-type: none"> <li>When on: remove the source and spec file after the packages are made.</li> </ul>
<b>Toggle quiet mode</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">q</a>	(rpm-toggle-quiet &optional ARG)	Toggle 'rpm-spec-quiet' user-option. <ul style="list-style-type: none"> <li>When on: print as little as possible (normally only errors).</li> </ul>
<b>Toggle short circuit</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">s</a>	(rpm-toggle-short-circuit &optional ARG)	Toggle 'rpm-spec-short-circuit' user-option. <ul style="list-style-type: none"> <li>When on: Skip straight to specified stage. (ie, skip all stages leading up to the specified stage). Only valid in "%build" and "%install" stage.</li> </ul>
<b>Change target</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">t</a>	(rpm-change-target-option &optional ARG)	Change the value for target.
<b>Change default umask</b>	<a href="#">C-c</a> <a href="#">C-x</a> <a href="#">u</a>	(rpm-files-umask &optional ARG)	Change the default umask for files.
<b>Insert/Modify</b>			
<b>Change a tag</b>	<a href="#">C-c</a> <a href="#">C-c</a>	(rpm-change-tag &optional ARG)	Change a tag.
<b>Insert/change a tag</b>	<a href="#">C-c</a> <a href="#">C-i</a>	(rpm-insert-tag &optional ARG)	Insert or change a tag.
<b>Increate release tag by 1</b>	<a href="#">C-c</a> <a href="#">C-r</a>	(rpm-increase-release-tag &optional ARG)	Increase the release tag by 1.
<b>Insert prefix</b>	<a href="#">C-c</a> <a href="#">C-u</a>	(rpm-insert-true-prefix)	Insert % <b>{prefix}</b> at point.
<b>Insert directory</b>	<a href="#">C-c</a> <a href="#">C-d</a> <a href="#">d</a>	(rpm-insert-dir &optional DIRNAME)	Insert directory.
<b>Insert doc directory</b>	<a href="#">C-c</a> <a href="#">C-d</a> <a href="#">o</a>	(rpm-insert-docdir &optional DIRNAME)	Insert doc directory.
<b>Insert config file</b>	<a href="#">C-c</a> <a href="#">C-f</a> <a href="#">c</a>	(rpm-insert-config &optional FILENAME)	Insert config file.
<b>Insert doc file</b>	<a href="#">C-c</a> <a href="#">C-f</a> <a href="#">d</a>	(rpm-insert-doc &optional FILENAME)	Insert doc file.
<b>insert regular file</b>	<a href="#">C-c</a> <a href="#">C-f</a> <a href="#">f</a>	(rpm-insert-file &optional FILENAME)	Insert regular file.
<b>insert ghost file</b>	<a href="#">C-c</a> <a href="#">C-f</a> <a href="#">g</a>	(rpm-insert-ghost &optional FILENAME)	Insert ghost file.
<b>Goto change-log/ add entry for today</b>	<a href="#">C-c</a> <a href="#">C-e</a>	(rpm-add-change-log-entry &optional CHANGE-LOG-ENTRY)	Find change log and add an entry for today.
<b>Goto change-log/ add header for today</b>	<a href="#">C-c</a> <a href="#">C-w</a>	(rpm-goto-add-change-log-entry)	Goto change log and add an header for today (if needed).
<b>Navigate across sections</b>			
<b>Move to specified section</b>	<a href="#">C-c</a> <a href="#">C-o</a>	(rpm-goto-section SECTION)	Prompt for section name, move point to the beginning of the specified section; leave mark at previous location.
<b>Move to next section</b>	<a href="#">C-c</a> <a href="#">C-n</a>	(rpm-forward-section)	Move forward to the beginning of the next section.
<b>Move to previous section</b>	<a href="#">C-c</a> <a href="#">C-p</a>	(rpm-backward-section)	Move backward to the beginning of the previous section. Go to beginning of previous section.
<b>Checking RPM Specs</b>			
<b>Run rpmlint</b>	<f12> <a href="#">1</a>	(pel-rpm-spec-lint)	Lint the current RPM spec file with rpmlint, show errors in compilation-mode buffer. <ul style="list-style-type: none"> <li>Uses PEL supplied <a href="#">awk filter</a> <a href="#">POSIX shell script</a> to format rpmlint output.</li> </ul>
<b>Building RPM</b>			
<b>Build all</b>	• <a href="#">C-c</a> <a href="#">C-b</a> <a href="#">a</a>	(rpm-build-all &optional ARG)	Run a 'rpmbuild -ba'.
	• <f12> <a href="#">b</a>	(pel-rpm-build)	Build the RPM corresponding to current RPM spec file. <ul style="list-style-type: none"> <li>Prompt for command line with <b>rpmbuild -ba</b> as default, supporting history.</li> <li>Create the ~/rpmbuild directory tree if needed.</li> </ul>
<b>Build binary</b>	<a href="#">C-c</a> <a href="#">C-b</a> <a href="#">b</a>	(rpm-build-binary &optional ARG)	Run a 'rpmbuild -bb'.
<b>Build compile</b>	<a href="#">C-c</a> <a href="#">C-b</a> <a href="#">c</a>	(rpm-build-compile &optional ARG)	Run a 'rpmbuild -bc'.
<b>Build install</b>	<a href="#">C-c</a> <a href="#">C-b</a> <a href="#">i</a>	(rpm-build-install &optional ARG)	Run a 'rpmbuild -bi'.
<b>List check</b>	<a href="#">C-c</a> <a href="#">C-b</a> <a href="#">l</a>	(rpm-list-check &optional ARG)	Run a 'rpmbuild -bl'.
<b>Build prepare</b>	<a href="#">C-c</a> <a href="#">C-b</a> <a href="#">p</a>	(rpm-build-prepare &optional ARG)	Run a 'rpmbuild -bp'.
<b>Build source</b>	<a href="#">C-c</a> <a href="#">C-b</a> <a href="#">s</a>	(rpm-build-source &optional ARG)	Run a 'rpmbuild -bs'.

RPM — References

Description & URL	Notes
RPM Package Manage @ Wikipedia	
RPM .spec file	<ul style="list-style-type: none"><li>• <a href="#">RPM Spec File Format</a></li><li>• <a href="#">RPM Packaging Guide</a></li><li>• <a href="#">RPM Spec File @ Red Hat</a></li></ul>
HOWTO	A short list of useful RPM specific commands. In there the <i>&lt;RPM&gt;</i> identifies a rpm package name you are searching for.
<a href="#">Download RPM files with dnf</a> (without installing them)	<ul style="list-style-type: none"><li>• <a href="#">dnf download &lt;RPM&gt;</a><ul style="list-style-type: none"><li>• Use this to download and inspect the content of a specific RPM file.</li></ul></li></ul>
<a href="#">Install a rpm from a local file</a>	<a href="#">rpm -i &lt;RPM FILE&gt;</a>
List all installed RPM	<a href="#">rpm -qa</a>
List all installed RPM by install time (with timestamp of their installation)	<a href="#">rpm -qa --last</a>
List files installed by a RPM	<a href="#">rpm -ql &lt;RPM&gt;</a> <ul style="list-style-type: none"><li>• Example: listing all directories created by all perl RPMs: <code>rpm -qa   grep -i perl   xargs -I \$ rpm -ql \$   xargs -I \$ dirname \$   sort   uniq</code></li></ul>
Get information about a specific RPM	<a href="#">rpm -qi &lt;RPM&gt;</a>
Identify the RPM package of an installed file	<a href="#">rpm -qf &lt;FILE-FULL-PATHNAME&gt;</a> <ul style="list-style-type: none"><li>• PEL provides a command to display the RPM that "owns" the file in the current buffer: <a href="#">pel-show-rpm-providing-file</a> See <a href="#">PEL</a> <a href="#">File-mngt</a></li></ul>