Object, Executable Files Inspection

Description	<u>Keystroke</u>	Function	<u>Note</u>
Inspecting	Emacs does not have explicit support for inspecting the content of object files. • However, the following external packages can be used to inspect the content of some object file formats:		
Object, Executable and Binary Files	• ELF	№ elf-mode	pel-use-elf-mode set to t activates it. Several forks of the original code exist. Some support customization.
This page is a placeholder, showing which modes can be activated with PEL. Use C-h m in those modes to see the bindings.	• Intel Hex	intel-hex-mode	 The version currently supported by PEL has some customization under the elfmode customization group. To customize with PEL, type: <f11> <f2> g elf-mode</f2></f11> Once I have time I'd like to bring every fork together and provide more information on the various features. That's in my to-do list to update PEL to support the latest. pel-use-intel-hex-mode set to t activates this mode. pel-intel-hex-activates-minor-modes allows specifying other minors modes activated for .hex files.
Last updated on:	2025-10-09		activated for thex files.
<u>elf-mode</u>	Open <u>ELF</u> (Executable Linkable File) object files with <u>elf-mode</u> activated by pel-use-elf-mode user-option. • When the elf-mode is active the following key bindings are available. The buffer opens in the <u>elf-mode-symbols</u> , showing the symbols.		
	A	(elf-mode-arch-specific)	
	G	(elf-mode-section-groups)	
	I	(elf-mode-histogram)	
	s	(elf-mode-section-headers)	 Lists the object section headers. Each section name is a button. Typing return on it opens a buffer that dumps the binary content of that section.
	v	(elf-mode-version-info)	
	С	(elf-mode-archive-index)	
	d	(elf-mode-dynamic)	
	е	(elf-mode-headers)	
	g	(revert-buffer &optional IGNORE- AUTO NOCONFIRM PRESERVE- MODES)	
	h	(elf-mode-header)	
	1	(elf-mode-program-headers)	
	m	(elf-mode-md5sum)	Show the MD5sum of this object file.
	n	(elf-mode-notes)	Show the notes found in the object file. Each note is on a line and have the following columns: Owner, Data size, Description, Build ID
	ď	(quit-window &optional KILL WINDOW)	
	r	(elf-mode-relocs)	List the relocation sections, the name of the section, number of entries inside each section and the data in the following columns: Offset Info Type: Example: R_X86_64_PLT32, RX86_64_32S Symbol's value Symbol's Name + Addend: Example: "printk - 4"
Show symbols Buttons to objdump of functions.	S	(elf-mode-symbols)	List the symbol table (.symtab) in the object file, which has the following columns: Index number starting at 0 Value Size (in bytes) Type: NOTYPE FILE SECTION OBJECT FUNC Bind: LOCAL GLOBAL Vis(ibility): Index: UND ABS # Name: The function names are buttons . Typing return on them opens a buffer with the objdump output showing the binary, the assembler code and the original source code and comment.
	u	(elf-mode-unwind)	Decode unwind sections
	x	(elf-mode-dyn-syms)	
Show strings extracted from the object file	z	(elf-mode-strings)	Prints the the output of running strings on the object file.
Hexadecimal	The nhexl-mode external package used to display and manipulate the content of the current buffer in hexadecimal and manipulate hex dump files.		
Editing with nhexl See also: Buffers	 PEL downloads installs and activates this package when the pel-use-nhexl user option is set to t. Use the <f11> b <f2> key sequence to open the PEL buffer customization buffer to access this user option.</f2></f11> Once the hexadecimal mode is on, turn it off by executing the nhexl-mode command again. 		
556 4150. <u># Duncis</u>	Good nhexl-mode features: The nhexl-mode keeps the undo history when you toggle the nhexl mode. Something that the helx mode does not do. You can use all of the normal navigation commands. You don't need to use specialized commands. PEL home and end commands work.		
Toggle buffer between normal and hex display	<f11> b x</f11>	(nhexl-mode &optional ARG)	Toggle minor mode to edit files via hex-dump format. Requires the <u>nhexl-mode</u> package activated when pel-use-nhexl user option is t.
Activate Hex nibble editing mode	<f11> b X</f11>	(nhexl-nibble-edit-mode &optional ARG)	Minor mode to edit the hex nibbles in 'nhexl-mode'. ⚠ Note: only works after nhexl-mode has been activated once. ᅟ Requires the <u>nhexl-mode</u> package ☑ activated when pel-use-nhexl user option is t.