

1 Introduction: User-Programmable Interface

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User-Programmable Interface

The L-Edit User-Programmable Interface (UPI) provides tools for automating, customizing, and extending the L-Edit command and function set, adding enormously to its power and flexibility.

UPI is based on C-language macros that describe actions or sets of actions to be performed automatically.

Macros can draw from a large number of available calls, variables, and datatypes to specify and modify the whole range of L-Edit operations.

Load sets of macros together and access them individually or interactively.

UPI can access macros as text files containing raw C code or as compiled dynamically linked libraries (DLLs).

UPI handles macros in four steps:

- Reading. Macros are read (loaded) in units of files. A macro file consists of one or more C-language macro routines.
- Registration. Macros are identified for use within L-Edit.
- Binding (optional). Each macro is associated with a keyboard shortcut and/or a menu command.

- Execution. L-Edit runs the macro.



Documentation Conventions

This section contains information about the typographical and stylistic conventions used in this user guide.

Special Fonts

The following inline references are represented by a bold font:

- Menu and simulation commands (For example: **.print tran v(out).**)
- Literal user input (For example: Enter **14.5**.)
- Program output (For example: S-Edit generates names for the ports on the symbol based on the **PAD** string.)
- All dialog elements—fields, checkboxes, drop-down menus, titles, etc. (For example: Click **Add**.)

Freestanding quotations of input examples, file listings, and output messages are represented by a constant-width font—for example:

```
.ac DEC 5 1MEG 100MEG
```

Variables for which context-specific substitutions should be made are represented by bold italics—for example, ***myfile.tdb***.

Sequential steps in a tutorial are set off with a checkbox (☑) in the margin.

References to mouse buttons are given in all capitals—for example, MOVE/EDIT. When a key is to be pressed and held while a mouse button is used, the key and button are adjoined by a plus sign (+). For example, **Shift**+SELECT means that the **Shift** key is pressed and held while the SELECT mouse button is used.

The terms “left-click,” “right-click,” and “middle-click” all assume default mappings for mouse buttons.

Text omitted for clarity or brevity is indicated by an ellipsis (...).



Menu Commands and Dialog Titles



Elements in hierarchical menu paths are separated by a > sign. For example, **File > Open** means the **Open** command in the **File** menu.

Tabs in dialog boxes are set off from the command name or dialog box title by a dash. For example, **Setup > Layers—General** and **Setup Layers—General** both refer to the **General** tab of the **Setup Layers** dialog.

Special Keys

Special keys are represented by the following abbreviations:

<i>Key</i>	<i>Abbreviation</i>
Shift	Shift
Enter	Enter
Control	Ctrl
Alternate	Alt
Backspace	Back
Delete	Del
Escape	Esc
Insert	Ins
Tab	Tab
Home	Home
End	End
Page Up	PgUp
Page Down	PgDn

<i>Key</i>	<i>Abbreviation</i>
Function Keys	F1 F2 F3 ...
Arrow Keys	↓, ←, →, ↑

When certain keys are to be pressed simultaneously, their abbreviations are adjoined by a plus sign (+). For example, **Ctrl+R** means that the **Ctrl** and **R** keys are pressed at the same time.

When certain keys are to be pressed in sequence, their abbreviations are separated by a space (). For example, **Alt+E R** means that the **Alt** and **E** keys are pressed at the same time and then released, immediately after which the **R** key is pressed.

Abbreviations for alternative key-presses are separated by a slash (/). For example, **Shift+↑ / ↓** means that the **Shift** key can be pressed together with either the up (↑) arrow key or the down (↓) arrow key.

Online User Guide Conventions

Text

Chapter title

Text or **Text**

Indicates a hypertext link

Contents/Search

Indicates a link to the Table of Contents file

Index

Indicates a link to the Index file

Indicates a link to the previous/
next page

Acrobat Reader Toolbar Tips



Go to previous/next page



Go to start/end of chapter



Go back/forward through pages viewed



Perform a full-text search



Open the search results list



Go to previous/next search result item