

HOTLINE!

Bulletin 4
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HOTLINE! is published periodically by the Customer Support group of Xerox Artificial Intelligence Systems to assist its customers in using the Lyric Release of Xerox Lisp. We will be covering a variety of topics and answering questions that are most frequently asked of Customer Support. We'll also include suggestions to help you get started in Lyric as well as announcements of known problems that you may encounter.

Feel free to make copies of individual bulletin pages and insert them in the appropriate place(s) in your Interlisp Reference Manual, Lisp Library Modules manual or other relevant manual. The documentation reference at the end of each topic can be used as a filing guide.

For more information on the questions or problems addressed in this or other bulletins please call us toll-free in the Continental United States 1-800-228-5325 (or in California 1-800-824-6449). Customer Support can also be reached via the Arpanet by sending mail to AISUPPORT.PASA@Xerox.com., or by writing to:

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In this issue

This issue is devoted to hints in using SEdit in Lyric. The following topics are covered in this issue.

- Using the left cluster keys in SEdit
- Changing levels in SEdit
- Function keys in SEdit
- Changing fonts in SEdit
- Setting a default mode for SEdit
- Finding "?" in SEdit
- Changing the print case in SEdit
- Macros in SEdit
- SEdit DO-IT key does not work as documented.

Terminology used in the *HOTLINE!* bulletin:

- AR - Action Request, a Xerox problem tracking number (e.g. AR 8321)
- IRM - Interlisp Reference Manual
- UG - User's Guide

Using the left cluster keys in SEdit

Topic Using the left cluster keys in SEdit

Release Lyric

Keywords SEdit, Keypad

Question How are the left cluster keys used in SEdit?

Answer The functions of the left cluster keys are described below.

STOP	DEL
UNDO	AGAIN
FIND	COPY
SAME	MOVE
HELP	EDIT

1186 Left Cluster

AGAIN	DELETE
FIND	COPY
SAME	MOVE
OPEN	PROPS

1108 Left Cluster

- Stop** Re-displays the SEdit window.
On the 1108 keyboard, STOP is in the right cluster keypad.
- Undo** Undoes the last edit (Meta-U).
On the 1108 keyboard, UNDO is in the right cluster keypad.
- Find** Finds the next instance of a specified structure (Meta-F).
- Shift-find** Find and replaces a structure (Meta-S).
- Same** No function.
- Help** Shows the argument list for the function currently selected (Meta-H).
On the 1108 keyboard, HELP is in the right cluster keypad.

If the SEdit window is too small, the forms will be displayed in the PROMPTwindow.

- Del** Deletes the selected part of a structure.
- Again** Redoes the edit change that was just undone (Meta-R).
- Copy** Copies a structure from one location to another.
1. Position the SEdit caret at the destination for the text.
 2. Hold the COPY key down while using the mouse to select the structure to be copied.
 3. Release the COPY key to execute the operation.
- Move** Moves a structure from one location to another.
- Use the same steps as COPY.
- Edit** The CONTROL key.
1. Hold the EDIT key down.
 2. Select the structures to be deleted.
 3. When the key is released, the structures will be removed.
- On the 1108 keyboard, the EDIT key is labeled as PROPS.
- Open** The META key for the 1108 keyboard.
- Reference** Lyric Release Notes, Appendix B. SEdit - The Lisp Editor.
- 1186 User's Guide Lyric Release, pages 16-18.
- 1108 Users' Guide, page 14.

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Changing Levels in SEdit

Topic Changing Levels in SEdit

Release Lyric

Keywords SEdit

Question Is there a simple way to move up one level in SEdit without using the mouse?

Answer Yes. Type a right parenthesis (SHIFT-0). The SEdit caret will move from its current position to the immediate right of the next closing parenthesis, effectively moving up one level.

The structure previously containing the SEdit caret will be selected (this is a quick way to select a structure), but as soon as the user begins to type again, the structure will be deselected.

At this point the user can also move back into the structure by pressing the BACKSPACE key.

Example Suppose the user types:

```
(COND ((= A 1 ) ^))
```

Then SHIFT-0 moves the caret as shown:

```
(COND (((= A 1 ) ^))
```

And then BACKSPACE returns to:

```
(COND ((= A 1 ) ^))
```

The caret positions have been exaggerated for clarity.

Reference None.

Function Keys in SEdit

Topic Function Keys in SEdit

Release Lyric

Keywords SEdit

Question Can I change the character looks in SEdit with the function keys just like I do in TEdit?

Answer No. The function keys are not used by SEdit.

Pressing any of these keys will appear to insert a space at the SEdit caret. These are not spaces; they are symbols (character objects) whose printed representations are spaces.

Reference None.

Changing Fonts in SEdit

- Topic** Changing Fonts in SEdit
- Release** Lyric
- Keywords** SEdit, Fonts
- Question** Can I change the display fonts for SEdit?
- Answer** Yes. The SEdit display fonts can be modified by editing the global variable FONTPROFILE. On this variable, the SEdit text font is determined by the list associated with DEFAULTFONT. And, the SEdit comment font is determined by the list associated with COMMENTFONT. The third element in each list determines the display font; so these are the values that should be modified to change the SEdit display fonts.

After the variable FONTPROFILE has been modified, the user should call the function FONTPROFILE to set up the modified font classes - DEFAULTFONT and COMMENTFONT. Then the function SEdit.RESET must be called to put these changes into the SEdit environment. This change will effect SEdit in both the XCL and the Interlisp Exec.

Since the user probably does not want to change the system environment's DEFAULTFONT and COMMENTFONT; FONTPROFILE should be restored to its original value by re-editing this variable and calling FONTPROFILE again. The SEdit fonts will not change back to their original values unless SEdit.RESET is called again.

Example The user wants to make his SEdit fonts larger and bolder.

Currently, a function defined in SEdit looks like this:

```
SEdit FOO Package: INTERLISP
(CL:DEFUN FOO (X)          ; 2nd element
  (CADR X))
```

In this example, the variable FONTPROFILE includes the sub-lists:

```
(DEFAULTFONT 1 (GACHA 10) (GACHA 8) (TERMINAL 8))
(COMMENTFONT 6 (HELVETICA 10) (HELVETICA 8)
(MODERN 8))
```

With SEdit, the user edits FONTPROFILE, changing (GACHA 10) to (GACHA 12 BRR), and (HELVETICA 10) to (HELVETICA 12 BRR):

```
(DEFAULTFONT 1 (GACHA 12 BRR) (GACHA 8) (TERMINAL
8))
(COMMENTFONT 6 (HELVETICA 12 BRR)(HELVETICA
8)(MODERN 8))
```

Then the user saves the new font classes by calling the function FONTPROFILE on the variable FONTPROFILE:

```
(FONTPROFILE FONTPROFILE)
```

Finally, the user puts these changes into the SEdit environment by calling SEDIT.RESET. All SEdit windows must be closed before this function can be called.

```
(SEEDIT.RESET)
```

Now, editing FOO again looks like this:

```
SEdit FOO Package: INTERLISP
(CL:DEFUN FOO (X) ; 2nd element
(CADR X))
```

Finally, the user should restore the original value of the variable FONTPROFILE.

Reference Lyric Release Notes, SEdit - The Lisp Editor, page B-11.
Interlisp-D Reference Manual, Volume 3: Input/Output, Section 27-13, 27-14.

Setting a Default Mode for SEdit

Topic Setting a Default mode for SEdit

Release Lyric

Keywords SEdit

Question Can I change the SEdit startup so that it defaults to DEFUN (or any other user specified default definition)?

Answer No. The user must proceed through the Type and Definer sub-menus to select DEFUN (or any other definition).

Reference None.

Finding “?” in SEdit

Topic Finding “?” in SEdit

Release Lyric

Keywords SEdit, Find

Problem SEdit can't easily find symbols with “?” in them

Background When you select Find or Substitute from the SEdit menu and type a symbol that contains a “?” the system does not accept the “?” character. This is because SEdit uses PROMPTFORWARD to get the search and replace items and PROMPTFORWARD treats the ? character as a redisplay line.

Workaround There are two options:

1. Quote the ? with ↑V (control - V) when entering it in response to the Find and Substitute prompt.
2. The user can use the SEdit command menu (META-M) to find or substitute symbols or strings containing a question mark.

Type META-M to attach the SEdit command menu.
Select the Find field with the mouse, and type in the text.
Re-select the Find field to execute the search.

Reference AR #7945

Changing the Print Case in SEdit

Topic Changing the Print Case in SEdit

Release Lyric

Keywords SEdit, CASE

Question Can I change the print case when I'm using SEdit under the XCL Exec?

Answer No. The user can globally change the print case for the Common Lisp printer, but cannot alter the print case just for SEdit.

The SEdit print case is determined by the value of the global variable *PRINT-CASE*. The default value is :UPCASE, but it can be changed to :DOWNCASE or :CAPITALIZE.

If *PRINT-CASE* is SETQ'ed to either of these values, SEdit (as well as the XCL Exec) will print all text in lowercase, or all text capitalized.

Reference Common LISP: The Language, page 372.
AR #7954

Macros in SEdit

Topic Macros in SEdit

Release Lyric

Keywords SEdit, MUTATE

Question Is there a keystroke macro facility for SEdit?

Answer No. However, the user can use the MUTATE (META-Z) command to execute arbitrary operations on a structure.

Example Using SEdit under the Interlisp Exec, the user wants to change some text in the function definition SIMPLE-SQUARE to lowercase.

First, the user selects the structure:

```
* SEdit SIMPLE-SQUARE Package: INTERLISP
(LAMBDA (X)
  (PRINT "THE SQUARE IS ")
  (ITIMES X X))
```

Then, the user uses the the META-Z keystroke, and types "L-CASE" to the prompt. The result is:

```
Mutate by function: L-CASE
* SEdit SIMPLE-SQUARE Package: INTERLISP
(LAMBDA (X)
  (PRINT "the square is ")
  (ITIMES X X))
```

Reference Lyric Release Notes, Appendix B, SEdit - The Lisp Editor, page B-8.

The SEdit DO-IT Key Does not Work as Documented

- Problem** The SEdit DO-IT key does not work as documented.
- Release** Lyric
- Keywords** SEdit, DO-IT
- Symptom** Using DO-IT does not evaluate the selected structure.
- Workaround** The META-E key should be used to evaluate a structure.
- Reference** AR #8947