

File created: 9-Jan-87 19:55:25 {ERIS}<LISPUSERS>LISPCORE>LAYOUT-SEdit.;2

changes to: (IL:VARIABLES USER::*L-S-REGION-ZERO* USER::*L-S-REGION-DELTA* USER::*L-S-REUSE-EARLIER-REGIONS*)
(IL:FUNCTIONS GET-REGION SAVE-REGION USER::USE-L-S-REGIONS USER::STOP-USING-L-S-REGIONS)
(IL:VARS IL:LAYOUT-SEditCOMs)

previous date: 26-Dec-86 19:42:46 {ERIS}<PAVEL>LISP>LAYOUT-SEdit.;2

Read Table: XCL

Package: LAYOUT-SEdit

Format: XCCS

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```
(IL:RPAQQ IL:LAYOUT-SEditCOMs
  ((IL:FUNCTIONS USER::USE-L-S-REGIONS USER::STOP-USING-L-S-REGIONS)
   (IL:VARIABLES *REGION-ALIST* USER::*L-S-REGION-ZERO* USER::*L-S-REGION-DELTA*
    USER::*L-S-REUSE-EARLIER-REGIONS*)
   (IL:FUNCTIONS REGION-PLUS)
   (IL:FUNCTIONS GET-REGION SAVE-REGION)
   (IL:DECLARE\ IL:DONTEVAL@LOAD IL:DONTEVAL@COMPILE IL:DOCOPY (IL:P (USER::USE-L-S-REGIONS)))
   ;; Arrange to use the proper compiler and makefile environment
   (IL:PROP (IL:FILETYPE IL:MAKEFILE-ENVIRONMENT)
    IL:LAYOUT-SEdit)))
```

```
(DEFUN USER::USE-L-S-REGIONS ()
  (ASSERT (NULL IL:|\\|\\|contexts|)
   NIL "Close all open Sedit windows")
  (IL:SEdit.RESET)
  (IL:MOVD 'IL:SEdit.GET.WINDOW.REGION 'OLD-GET-REGION)
  (IL:MOVD 'IL:SEdit.SAVE.WINDOW.REGION 'OLD-SAVE-REGION)
  (IL:MOVD 'GET-REGION 'IL:SEdit.GET.WINDOW.REGION)
  (IL:MOVD 'SAVE-REGION 'IL:SEdit.SAVE.WINDOW.REGION))
```

```
(DEFUN USER::STOP-USING-L-S-REGIONS ()
  (ASSERT (NULL IL:|\\|\\|contexts|)
   NIL "Close all open Sedit windows")
  (IL:SEdit.RESET)
  (IL:MOVD 'OLD-GET-REGION 'IL:SEdit.GET.WINDOW.REGION)
  (IL:MOVD 'OLD-SAVE-REGION 'IL:SEdit.SAVE.WINDOW.REGION))
```

```
(DEFVAR *REGION-ALIST* NIL
```

;; An AList mapping a region to the SEdit context that currently owns it. The associations of regions no longer in use should have a CDR of NIL. The
;; list is kept in reverse order, with the farthest region from *REGION-ZERO* at the front of the list. So as to allow experimentation by users, we
;; maintain the invariant that the first association on the list never has a CDR of NIL. To reestablish that invariant, we sometimes POP the AList rather
;; than set the CDR to NIL.

)

```
(DEFVAR USER::*L-S-REGION-ZERO* (IL:CREATEREGION 25 (- (TRUNCATE IL:SCREENHEIGHT 2)
  19)
  (TRUNCATE IL:SCREENWIDTH 2)
  (TRUNCATE IL:SCREENHEIGHT 2)))
```

;; The region to be used by the first SEdit window. This works in conjunction with USER::*L-S-REGION-DELTA* to specify the region for each new
;; SEdit window.

)

```
(DEFVAR USER::*L-S-REGION-DELTA* (IL:CREATEREGION 11 -44 0 0))
```

```
(DEFVAR USER::*L-S-REUSE-EARLIER-REGIONS* NIL
```

;; If non-NIL, then earlier regions (i.e., those closer to USER::*L-S-REGION-ZERO* will get reused when free. Otherwise, new regions, farther from
;; USER::*L-S-REGION-ZERO* than any currently in use, will be created.

)

```
(DEFUN REGION-PLUS (ONE TWO)
  (IL:CREATEREGION (+ (IL:FETCH (IL:REGION IL:LEFT) IL:OF ONE)
    (IL:FETCH (IL:REGION IL:LEFT) IL:OF TWO))
  (+ (IL:FETCH (IL:REGION IL:BOTTOM) IL:OF ONE)
    (IL:FETCH (IL:REGION IL:BOTTOM) IL:OF TWO))
  (+ (IL:FETCH (IL:REGION IL:WIDTH) IL:OF ONE)
    (IL:FETCH (IL:REGION IL:WIDTH) IL:OF TWO))
  (+ (IL:FETCH (IL:REGION IL:HEIGHT) IL:OF ONE)
    (IL:FETCH (IL:REGION IL:HEIGHT) IL:OF TWO))))
```

```
(DEFUN GET-REGION (CONTEXT)
  (LET ((PAIR (AND USER::*L-S-REUSE-EARLIER-REGIONS* (FIND NIL *REGION-ALIST* :KEY 'CDR))))
    (COND
      ((NULL PAIR)
        (COND
          ((NULL *REGION-ALIST*)
            (SETQ *REGION-ALIST* (LIST (CONS USER::*L-S-REGION-ZERO* CONTEXT)))
            USER::*L-S-REGION-ZERO*)
          (T (LET ((NEW-REGION (REGION-PLUS (CAR (FIRST *REGION-ALIST*))
                                              USER::*L-S-REGION-DELTA*)))
              (PUSH (CONS NEW-REGION CONTEXT)
                    *REGION-ALIST*)
              NEW-REGION))))
      (T (SETF (CDR PAIR)
              CONTEXT)
        (CAR PAIR)))))
```

```
(DEFUN SAVE-REGION (CONTEXT)
```

```
;; The context is done with its region. Deallocate it.
```

```
(LET ((PAIR (FIND CONTEXT *REGION-ALIST* :KEY 'CDR)))
  (IF (NULL PAIR)
    (WARN "An SEdit context is trying to give up an unallocated region.")
    (SETF (CDR PAIR)
          NIL))
  (SETQ *REGION-ALIST* (MEMBER-IF-NOT 'NULL *REGION-ALIST* :KEY 'CDR))))
```

```
(IL:DECLARE\ : IL:DONTEVAL@LOAD IL:DONTEVAL@COMPILE IL:DOCOPY
```

```
(USER::USE-L-S-REGIONS)
)
```

```
;; Arrange to use the proper compiler and makefile environment
```

```
(IL:PUTPROPS IL:LAYOUT-SEdit IL:FILETYPE COMPILE-FILE)
```

```
(IL:PUTPROPS IL:LAYOUT-SEdit IL:MAKEFILE-ENVIRONMENT (:READTABLE "XCL" :PACKAGE (XCL:DEFPACKAGE "LAYOUT-SEdit"
                                                    (:NICKNAMES "L-S"))))
```

```
(IL:PUTPROPS IL:LAYOUT-SEdit IL:COPYRIGHT ("Pavel Curtis" 1986 1987))
```

FUNCTION INDEX

GET-REGION	2	SAVE-REGION	2	USER::USE-L-S-REGIONS	1
REGION-PLUS	1	USER::STOP-USING-L-S-REGIONS	1		

VARIABLE INDEX

USER::*L-S-REGION-DELTA*	1	USER::*L-S-REUSE-EARLIER-REGIONS*	1
USER::*L-S-REGION-ZERO*	1	*REGION-ALIST*	1

PROPERTY INDEX

IL:LAYOUT-SEDIT	2
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