```
17-May-90 11:03:43 {DSK}<usr>local>lde>lispcore>sources>SEDIT-INDENT.;2
 File created:
  changes to:
                (IL: VARS IL: SEDIT-INDENTCOMS)
previous date:
                27-Jun-88 17:37:44 {DSK}<usr>local>lde>lispcore>sources>SEDIT-INDENT.;1
 Read Table:
                XCL
    Package:
                SEDIT
       Format:
                 XCCS
; Copyright (c) 1987, 1988, 1990 by Venue & Xerox Corporation. All rights reserved.
(IL:RPAQQ IL:SEDIT-INDENTCOMS
           ((IL:PROP IL:FILETYPE IL:SEDIT-INDENT)
(IL:PROP IL:MAKEFILE-ENVIRONMENT IL:SEDIT-INDENT)
             (IL:DECLARE\: IL:DONTCOPY IL:DOEVAL@COMPILE (IL:FILES IL:SEDIT-DECLS))
             (IL:VARIABLES LIST-FORMATS-TABLE *FSPEC-TABLE* *FSPEC-TABLE-COPY* *INDENT-ALIST*)
             (IL:FUNCTIONS GET-INDENT GET-FORMAT)
             (IL:SETFS GET-INDENT GET-FORMAT)
             (IL:FUNCTIONS RESET-FORMATS INSTALL-SPECIAL-FORMATS PARSE-FORMAT SETF-OF-GET-FORMAT
                    FORMAT-FROM-INDENT PARSE-INDENT PARSE-INDENT-NAME PARSE-INDENT-BODY PARSE-INDENT-GROUP
                    PARSE-INDENT-GROUP-BODY PARSE-INDENT-GROUP-ONE PARSE-INDENT-GROUPS SCALE-INDENT)
             (IL:FUNCTIONS COPY-HASH-TABLE)
                    ;; a definer for formats
                     (IL:DEFINE-TYPES IL:SEDIT-FORMATS)
                     (IL:FUNCTIONS DEF-LIST-FORMAT)
                     (IL:PROP IL:ARGNAMES DEF-LIST-FORMAT))))
(IL:PUTPROPS IL:SEDIT-INDENT IL:FILETYPE : COMPILE-FILE)
(IL:PUTPROPS IL:SEDIT-INDENT IL:MAKEFILE-ENVIRONMENT (:READTABLE "XCL" :PACKAGE (DEFPACKAGE IL:SEDIT
                                                                                                    (:USE IL:LISP IL:XCL))))
(IL:DECLARE\: IL:DONTCOPY IL:DOEVAL@COMPILE
(IL:FILESLOAD IL:SEDIT-DECLS)
(DEFVAR LIST-FORMATS-TABLE (MAKE-HASH-TABLE :SIZE 1000))
(DEFVAR *FSPEC-TABLE* (MAKE-HASH-TABLE :TEST #'EQUAL :SIZE 2000)
                             "Associates function names with their format specifications.")
(DEFVAR *FSPEC-TABLE-COPY* NIL
   "hash table containing original format specs")
(DEFPARAMETER *INDENT-ALIST*
   (LIST
;;; Each entry associates a name with a list of two indentation specifications. The first is for preferred mode and the second is for miser mode. Each
;;; number in the specs is taken as an indentation level (0=none, 1=body, 2=step1, etc.) and will be scaled appropriately at installation time.
          (LIST : VERTICAL
                 ;; vertical indentation aligns all args with first, each on their own line. In preferred mode, the first arg goes on the same line with the
                  CAR. In miser mode, it goes on the next line at body indentation. If the CAR is non-atomic then the first arg always goes on next
                 ;; line with NO indentation.
                 (LIST (LIST* 'BREAK 'FROM-INDENT 0)
                        (LIST* 'SET-INDENT 'PREV-ATOM? 1 'BREAK 0)
                       (LIST* 'BREAK 'FROM-INDENT 0))
(LIST* 'BREAK 'FROM-INDENT 0)
(LIST* 'SET-INDENT 'BREAK 'PREV-ATOM? 1 0)
                        (LIST* 'BREAK 'FROM-INDENT 0)))
          (LIST :KEYWORD-ARG
                 ;; Keyword-arg indentation is like vertical, but args which follow keywords go on the same line as the keyword. Note this won't work
                 ;; real well if there are keyword values being specified for regular args.
                 (LIST (LIST* 'PREV-KEYWORD? (LIST* 'NEXT-INLINE? 1 'BREAK 'FROM-INDENT 1)
                                'BREAK
                        'FROM-INDENT 0)
(LIST* 'SET-INDENT 'PREV-ATOM? 1 'BREAK 0)
                        (LIST* 'PREV-KEYWORD? (LIST* 'NEXT-INLINE? 1 'BREAK 'FROM-INDENT 1)
                                'BREAK
                                'FROM-INDENT 0))
                 (LIST (LIST* 'PREV-KEYWORD? (LIST* 'NEXT-INLINE? 1 'BREAK 'FROM-INDENT 1)
                                'BREAK
                                'FROM-INDENT 0)
                        (LIST* 'SET-INDENT 'BREAK 'PREV-ATOM? 1 0)
                        (LIST* 'PREV-KEYWORD? (LIST* 'NEXT-INLINE? 1 'BREAK 'FROM-INDENT 1)
```

(LIST :LAMBDA-LIST

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                                                                                                                                Page 2
                                 'FROM-INDENT 0)))
          (LIST : HORIZONTAL
                  ; Horizontal packs as many args on a single line as will fit. Note that only complete forms are packed together on a line, not pieces
                  ;; of forms. Also, the notes under :vertical about miser/preferred modes and non-atomic CARs apply here as well.
                  (LIST (LIST* 'FROM-INDENT 'PREV-INLINE? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                 'BREAK 0)
                         (LIST* 'SET-INDENT 'PREV-ATOM? 1 'BREAK 0)
                         (LIST* 'FROM-INDENT 'PREV-INLINE? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                 'BREAK 0))
                  (LIST (LIST* 'FROM-INDENT 'PREV-INLINE? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                 'BREAK 0)
                         (LIST* 'SET-INDENT 'BREAK 'PREV-ATOM? 1 0)
                         (LIST* 'FROM-INDENT 'PREV-INLINE? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                 'BREAK 0)))
          (LIST : HORIZONTAL-ATOM
                 ;; break before & after keyword/arg pairs & lists, otherwise atoms stay on one line
                  (LIST (LIST* 'FROM-INDENT 'PREV-ATOM? (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                                                        'BREAK ()
                                 'BREAK ()
                         (LIST* 'SET-INDENT 'PREV-ATOM? (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                                                       'BREAK ()
                                 'BREAK ()
                         (LIST* 'FROM-INDENT 'PREV-ATOM? (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                                                        'BREAK 0)
                                 'BREAK 0))
                  (LIST (LIST* 'FROM-INDENT 'PREV-ATOM? (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                                                        'BREAK 0)
                                 'BREAK 0)
                         (LIST* 'SET-INDENT 'PREV-ATOM? (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                                                      'BREAK 0)
                                 'BREAK 0)
                         (LIST* 'FROM-INDENT 'PREV-ATOM? (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                                                        'BREAK 0)
                                 'BREAK 0)))
          (LIST :SQUASH
                  ;; Squash is like horizontal except it will also pack complete forms on the ends of lines which finish off partial forms. As in
                  ;; (FOO/BAR) BAZ/BAM where each / indicates a line break.
                        (LIST* 'FROM-INDENT 'NEXT-INLINE? 0 'BREAK 0) (LIST* 'SET-INDENT 'PREV-ATOM? 1 'BREAK 0)
                         (LIST* 'FROM-INDENT 'NEXT-INLINE? 0 'BREAK 0))
                         (LIST* 'FROM-INDENT 'NEXT-INLINE? 0 'BREAK 0)
                         (LIST* 'SET-INDENT 'BREAK 'PREV-ATOM? 1 0)
                         (LIST* 'FROM-INDENT 'NEXT-INLINE? 0 'BREAK 0)))
          (LIST :DATA
                 ;; Data packs as many atoms on a line as will go, possibly followed by a single list. There isn't any difference between regular and
                 ;; miser modes.
                  (LIST (LIST* 'PREV-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                  BREAK 0))
                  (LIST (LIST*
                                'PREV-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                 'BREAK 0)))
          (LIST : BINDING
                 ;; This is an "extended binding", as in a lambda list or the binding list of a DO. The CAR is the variable bound, the CADR is the form ;; to bind to, and the (optional) CADDR is a sometimes-evaled form. We line up the second and third forms, basically like vertical
                  (LIST (LIST* 'FROM-INDENT 'PREV-INLINE? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                 'BREAK 0)
                         (LIST* 'SET-INDENT 1)
                         (LIST* 'FROM-INDENT 'PREV-INLINE? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                 'BREAK 0))
                  (LIST (LIST* 'FROM-INDENT 'BREAK 0)
(LIST* 'SET-INDENT 'BREAK 1)
                         (LIST* 'FROM-INDENT 'BREAK 0)))
          (LIST :BINDING-LIST
                  ; This is a list of bindings, as in LETs and DOs. They all line up vertically, and each goes on its own line except strings of atoms are
                  ;; grouped on one line.
                  (LIST (LIST* 'PREV-ATOM? (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                                        'BREAK 0)
                                  BREAK 0))
                  (LIST (LIST* 'PREV-ATOM? (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                                        'BREAK 0)
                                 'BREAK 0)))
          (LIST : COND-CLAUSE
                 ;; Cond clauses line up each form on its own line unless all can go on one.
                  (LIST (LIST* 'BREAK 0))
                  (LIST (LIST* 'BREAK 0)))
```

Lambda lists go all on one line if possible. Otherwise they group strings of atoms on one line and put each initialized binding on a line by itself. Lambda-list words like &optional get exdented to the list margin and start a new level of indentation for the following ;; forms.

```
{MEDLEY}<sources>SEDIT-INDENT.;1 (*INDENT-ALIST* cont.)
                                                                                                                         Page 3
                 (LIST (LIST* 'PREV-LAMBDAWORD? (LIST* 'NEXT-LAMBDAWORD? 0 'SET-INDENT 0)
                                'NEXT-LAMBDAWORD?
                                (LIST* 'BREAK 'SET-INDENT 0)
                                FROM-INDENT
                               'PREV-ATOM?
                                (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                        'BREAK 0)
                                'BREAK 0))
                 (LIST (LIST* 'PREV-LAMBDAWORD? (LIST* 'NEXT-LAMBDAWORD? 0 'SET-INDENT 0)
                                'NEXT-LAMBDAWORD?
                                (LIST* 'BREAK 'SET-INDENT 0)
                                 FROM-INDENT
                                'PREV-ATOM?
                                (LIST* 'NEXT-ATOM? (LIST* 'NEXT-INLINE? 0 'BREAK 0)
                                        'BREAK 0)
                                'BREAK 0))))
   "Alist of keyword names and SEdit indentation specifications (2 per name).")
(DEFUN GET-INDENT (NAME)
;;; Retrieves the SEdit-internal indent specification for NAME (if any) by looking it up.
   (CDR (ASSOC NAME *INDENT-ALIST*)))
(DEFUN GET-FORMAT (FNAME)
;;; Returns the external format specification associated with FNAME (or NIL if none).
   (GETHASH FNAME *FSPEC-TABLE*))
(DEFSETF GET-INDENT (NAME) (BODY)
;;; Replace the indent associated with NAME, or add a new one if necessary.
   '(LET ((IPAIR (ASSOC , NAME *INDENT-ALIST*)))
          (IF IPAIR
               (SETF
                     (CDR IPAIR)
                      ,BODY)
               (PUSH (CONS , NAME , BODY)
                      *INDENT-ALIST*))))
(DEFSETF GET-FORMAT SETF-OF-GET-FORMAT)
(DEFUN RESET-FORMATS (&OPTIONAL SMASH-USER-REDEFINITIONS? DONT-REPARSE?)
;;; This installs the built-in SEdit formats. We tend to throw away all cached info on the assumption that something such as fonts may have changed and
;;; so the old info is just wrong now.
   ;; clear tables which will get re-built
   (CLRHASH LIST-FORMATS-TABLE)
   ;; install the formats we can't run without
   (INSTALL-SPECIAL-FORMATS DONT-REPARSE?)
   (IF (NULL *FSPEC-TABLE-COPY*)
        ;; we're bootstrapping -- make a copy of *FSPEC-TABLE*
        (SETQ *FSPEC-TABLE-COPY* (COPY-HASH-TABLE *FSPEC-TABLE* (MAKE-HASH-TABLE)))
        (WHEN SMASH-USER-REDEFINITIONS?
            ;; smash *FSPEC-TABLE-COPY* into *FSPEC-TABLE*
            (COPY-HASH-TABLE *FSPEC-TABLE-COPY* *FSPEC-TABLE*)))
   (UNLESS DONT-REPARSE?
        ;; reparse & install all the defined list formats
        (MAPHASH #' (LAMBDA (NAME FSPEC
                            (SETF (GET-FORMAT NAME)
                                   FSPEC))
                *FSPEC-TABLE*)))
(DEFUN INSTALL-SPECIAL-FORMATS (DEFAULT-AND-DATA-TOO?)
 There are four special formats that SEdit must know about in order to run at all: the :default format (used for lists in general), the :data format (used for
;;; quoted lists), the :clisp format (used for CLISP forms), and the :dotlist format (used for dotted lists). We install these here to make sure they're
;;; around!
   (WHEN DEFAULT-AND-DATA-TOO?
        (SET-LIST-FORMAT :DEFAULT (PARSE-FORMAT (LIST :INDENT :VERTICAL :INLINE T)))
```

(SET-LIST-FORMAT :DATA (PARSE-FORMAT (LIST :INDENT :DATA :ARGS (LIST :RECURSIVE)

LIST-FORMATS IL:\_ NIL

(SET-LIST-FORMAT :CLISP (IL:CREATE LIST-FORMAT

:INLINE T))))

(COND

((KEYWORDP ISPEC)

((LISTP ISPEC)

(SETF INDENTS (PARSE-INDENT-NAME ISPEC)))

```
{MEDLEY}<sources>SEDIT-INDENT.;1 (PARSE-INDENT cont.)
                                                                                                                                            Page 5
         (SETF INDENTS (PARSE-INDENT-GROUPS ISPEC)))
        (T (CERROR "Use :vertical
                                          indentation." "Illegal indent specification: ~S" ISPEC)
            (SETF INDENTS (PARSE-INDENT-NAME : VERTICAL))))
    (UNLESS (AND INDENTS (LISTP INDENTS))
             (ERROR "Unanticipated parse error in parse-indent!"))
    INDENTS)
(DEFUN PARSE-INDENT-NAME (NAME)
;;; The only special indent names are those in the *indent-alist*. So we do an error-checked lookup.
    (LET ((INDENTS (GET-INDENT NAME)))
          (UNLESS INDENTS
                (CERROR "Use :vertical indentation." "Not a known indentation: ~S." NAME)
                (SETF INDENTS (CDR (ASSOC :VERTICAL *INDENT-ALIST*))))
          INDENTS))
(DEFUN PARSE-INDENT-BODY (INDENTS OFFSET TAGBODY?)
 ; Creates the body part of an indentation spec. If this is a tagbody, we exdent atoms. Note that, since the first element sets the indent, the indent will ; be set exdented if the first element is a tag. This will screw up double-semi comments. To compensate as best we can, we make every ; non-exdented form in a tagbody set the tab. That way, the only double-semi comments that get screwed up are ones following an initial tag but
;;; preceding all the forms.
;;; As usual, we precede everything with WholeInline? tests that disable the breaks, that way you can win if you specify :inline as a format option.
    (LET* ((FIRST (IF TAGBODY?
                            (LIST* 'BREAK 'NEXT-ATOM? 0 'SET-INDENT OFFSET)
(LIST* 'SET-INDENT 'BREAK OFFSET)))
             (REPEAT (IF TAGBODY?
                             (LIST* 'BREAK 'NEXT-ATOM? 0 'SET-INDENT OFFSET) (LIST* 'BREAK OFFSET))))
           ;; Start off with the first and repeat forms.
            (PUSH FIRST (FIRST INDENTS))
            (PUSH FIRST (SECOND INDENTS))
            (PUSH REPEAT (FIRST INDENTS))
            (PUSH REPEAT (SECOND INDENTS))
            ;; Now, since indents have this screwy last-element first format, we reverse the whole thing and then add the repeat to the beginning.
            (LIST (CONS REPEAT (NREVERSE (FIRST INDENTS)))
                    (CONS REPEAT (NREVERSE (SECOND INDENTS))))))
(DEFUN PARSE-INDENT-GROUP (INDENTS GROUP OFFSET &AUX (BREAK (LIST* 'FROM-INDENT 'BREAK 0))
                                                   (NOBREAK (LIST* 'FROM-INDENT 'PREV-INLINE? (LIST* 'NEXT-INLINE? 0
                                                                                                                     'BREAK 0)
                                                                        'BREAK 0)))
  Each group after the first (if it has any members at all) starts on a new line. And we should only be called for groups after the first. Elements after the
;;; first are handled as a normal group body.
    (UNLESS (AND (NUMBERP GROUP)
         (= GROUP 0))
(PUSH (LIST* 'SET-INDENT 'BREAK OFFSET)
         (FIRST INDENTS))
(PUSH (LIST* 'SET-INDENT 'BREAK OFFSET)
                  (SECOND INDENTS)
         (PARSE-INDENT-GROUP-BODY INDENTS GROUP)))
(DEFUN PARSE-INDENT-GROUP-BODY (INDENTS GROUP &AUX (BREAK (LIST* 'FROM-INDENT 'BREAK 0))
                                                            (NOBREAK (LIST* 'FROM-INDENT 'PREV-INLINE? (LIST* 'NEXT-INLINE? 0
                                                                                                                              'BREAK 0)
                                                                                 'BREAK 0)))
;;; Creates the body part of one of the distinguished groups in an indentation spec. If the spec is a simple number, we force each form in the body onto a
  separate line starting at the tab stop. If the spec is a number inside a list, we allow the body forms to go together on lines if they fit in line. The idea is
  really to allow them either to ALL go on one line or else ALL go on separate lines, but the SEdit indentation mechnism doesn't have enough power to
;;; As usual, we precede everything with WholeInline? tests that disable the breaks, that way you can win if you specify :inline as a format option.
    (COND
        ((NUMBERP GROUP)
```

```
(DOTIMES (I (1- GROUP))
     (PUSH BREAK (FIRST INDENTS))
     (PUSH BREAK (SECOND INDENTS))))
((AND (LISTP GROUP)
 (NUMBERP (FIRST GROUP)))
(DOTIMES (I (1- (FIRST GROUP)))
     (PUSH NOBREAK (FIRST INDENTS))
     (PUSH NOBREAK (SECOND INDENTS))))
(T (ERROR "Illegal indent group specification: ~S" GROUP))))
```

```
(DEFUN PARSE-INDENT-GROUP-ONE (INDENTS GROUP OFFSET ARG-1)
```

```
;;; The first distinguished group in an indent spec has to specially place the first arg if desired. We do that and then call the normal code to place any
;;; other args in the first group.
    (UNLESS (AND (NUMBERP GROUP)
                    (= GROUP 0))
         (PUSH (CASE ARG-1
                     (:BREAK (LIST* 'SET-INDENT 'BREAK OFFSET))
                     (OTHERWISE (LIST* 'SET-INDENT OFFSET)))
                (FIRST INDENTS))
         (PUSH (CASE ARG-1
                     (:NOBREAK (LIST* 'SET-INDENT OFFSET))
                     (:BREAK (LIST* 'SET-INDENT 'BREAK OFFSET))
                     (OTHERWISE (LIST* 'SET-INDENT 'NEXT-PREFERRED? OFFSET 'BREAK OFFSET)))
                 (SECOND INDENTS))
         (PARSE-INDENT-GROUP-BODY INDENTS GROUP)))
(DEFUN PARSE-INDENT-GROUPS (GROUPS &AUX (ARG-1 NIL)
                                                   (TAGBODY? NIL)
                                                   (CURIN 1)
                                                   (INDENTS (LIST NIL NIL)))
;;; A grouping is either a number or a list containing a single number. Each number indicates how many forms are to be indented at the current level. ;;; Each group is indented 1 step further in from the next group, except the first group is sometimes indented as a first arg. A parenthesized group
;;; number indicates that the group members can sit on one line with each other, else each form goes on its own line. Each group sets the tab.
    (COND
        (GROUPS
                ;; the spec can be preceded by keywords: :step (increase all indentations one step), :tagbody (the body part is a tagbody), ;; :break/:nobreak/:fit (describes where to place the first group). These can come in any order.
                (DO ((G GROUPS (REST G)))
                     ((OR (NULL G)
                           (NOT (KEYWORDP (FIRST G))))
                       (SETF GROUPS G))
                   (CASE (FIRST G)
                        (:STEP (INCF CURIN))
                        (:TAGBODY (SETF TAGBODY? T))
                        ((:BREAK :NOBREAK :FIT)
                            (WHEN ARG-1
                                 (CERROR "Ignore it." "Extra placement keyword in indentation: ~A" (FIRST G)))
                            (SETF ARG-1 (FIRST G)))
                        (OTHERWISE (CERROR "Ignore it." "Unrecognized indentation keyword: ~A." (FIRST G)))))
                (INCF CURIN (LENGTH GROUPS))
                (WHEN GROUPS
                     (PARSE-INDENT-GROUP-ONE INDENTS (FIRST GROUPS)
                             CURIN ARG-1)
                     (DECF CURIN)
                     (DOLIST (IL:GROUP (REST GROUPS))
                          (PARSE-INDENT-GROUP INDENTS IL: GROUP CURIN)
                          (DECF CURIN)))
                (PARSE-INDENT-BODY INDENTS CURIN TAGBODY?))
ROR "Use :vertical indentation." "Null indentation specification.")
           (PARSE-INDENT-NAME : VERTICAL))))
(DEFUN SCALE-INDENT (INDENT &OPTIONAL (INDENT-BASE (IL:FETCH INDENT-BASE IL:OF LISP-EDIT-ENVIRONMENT))
                                      (INDENT-STEP (IL:FETCH INDENT-STEP IL:OF LISP-EDIT-ENVIRONMENT)))
;;; Substitute point sizes for the indentation tab stop specifications in an indent. This definition is adapted from that for SUBST given in the Common Lisp
;;; manual. The result shares as much structure with the original as possible.
    (COND
        ((NUMBERP INDENT)
         (IF
             (= INDENT 0)
             INDENT
              (+ INDENT-BASE (* INDENT-STEP (1- INDENT)))))
        ((CONSP INDENT)
         (LET ((IL:LEFT (SCALE-INDENT (CAR INDENT)
                                    INDENT-BASE INDENT-STEP))
                (IL:RIGHT (SCALE-INDENT (CDR INDENT)
                                     INDENT-BASE INDENT-STEP)))
               (IF (AND (EQL IL:LEFT (CAR INDENT))
                          (EQL IL:RIGHT (CDR INDENT)))
                    INDENT
                    (CONS IL:LEFT IL:RIGHT))))
        (T INDENT)))
(DEFUN COPY-HASH-TABLE (OLD-TABLE NEW-TABLE)
```

;; copies the contents of OLD-TABLE into NEW-TABLE (MAPHASH #'(LAMBDA (KEY VALUE) (SETF (GETHASH KEY NEW-TABLE)

```
VALUE))
       OLD-TABLE)
  NEW-TABLE)
;; a definer for formats
IL:SEDIT-FORMATS (NAME &REST REST)
  (LET* ((DOCUMENTATION (IF (STRINGP (CAR REST))
                      (CAR REST)))
        (REST (IF DOCUMENTATION
               (CDR REST)
               REST))
       '(SETF (GET-FORMAT ', NAME)
            ', (IF (ENDP (CDR REST))
                 (CAR REST)
                 REST)
            ,@(IF DOCUMENTATION
                 '((DOCUMENTATION ,NAME 'IL:SEDIT-FORMATS)
,DOCUMENTATION))))
```

(IL:PUTPROPS DEF-LIST-FORMAT IL:ARGNAMES (NAME {DOC} &KEY INDENT ARGS INLINE MISER LAST SUBLISTS))

(IL:PUTPROPS IL:SEDIT-INDENT IL:COPYRIGHT ("Venue & Xerox Corporation" 1987 1988 1990))

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	SETF	INDEX	
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