```
7-Mar-2024 22:47:10 {DSK}<home>frank>il>notecards>library>NCTABLETOPCARD.;2
   File created:
     changes to:
                                       (FNS_NCTableTop.ComputeCardsFromTemplate)
previous date:
                                        5-Nov-2020 20:03:07 {DSK}<home>frank>il>notecards>library>NCTABLETOPCARD.;1
    Read Table:
                                      INTERLISP
         Package:
                                      INTERLISP
                 Format:
                                         XCCS
(RPAQQ NCTABLETOPCARDCOMS
                    [(DECLARE%: DONTCOPY (PROPS (NCTABLETOPCARD MAKEFILE-ENVIRONMENT)
                                                                                                 (NCTABLETOPCARD FILETYPE)))
;;; Table top cards have substances containing card UIDs and screen regions. Following a link to a tabletop brings up its card in the stored regions.
                      (GLOBALVARS NCTableTop.LinkIconBitmap NCTableTop.OpenEventsExpr NCTableTop.OldOpenEventsExprs
                                         NCTableTop.MiddleButtonMenuItems)
                      [INITVARS [NCTableTop.OpenEventsExpr '(PROGN (NC.LoadFileFromDirectories 'NCTABLETOPCARD)
                                                                                                                                                  (NCTableTop.NoteFileWhenOpenedFn NoteFile]
                                         [NCTableTop.OldOpenEventsExprs '((PROGN (NC.LoadFileFromDirectories NCTABLETOP)
                                                                                                                                                     (NCTableTop.NoteFileWhenOpenedFn NoteFile))
(FILESLOAD (FROM NOTECARDS)
                                                                                                                                    (PROGN
                                                                                                                                                                         NCTABLETOP)
                                                                                                                                                       (NCTableTop.NoteFileWhenOpenedFn NoteFile]
                                         (NCTableTop.MiddleButtonMenuItems '((Recompute% TableTop (FUNCTION NCTableTop.RecomputeTableTop)
                                                                                                                                                               "Recomputes this table top using current configuration % \left( 1\right) =\left( 1\right) \left( 1\right
                                                                                                                                                               of its cards.'
                                                                                                                                                               (SUBITEMS (New% Cards (FUNCTION
                                                                                                                                                                                                 {\tt NCTableTop.RemakeTableTopSelectingNewCards}
                                                                                                                                                                                                             "Recompute this table top using a new
                                                                                                                                                                                                             list of cards.")
                                                                                                                                                                                  (|New Cards In Order | (FUNCTION
                                                                                                                                                                              {\tt NCTableTop.RemakeTableTopSelectingNewCardsInOrder}
                                                                                                                                                                                                    "Recompute this table top using a new list of cards, in the order in which they are selected.")
                                                                                                                                                                                  (With% Template (FUNCTION
                                                                                                                                                                                                         {\tt NCTableTop.ComputeTableTopUsingTemplate}
                                                                                                                                                                                                     "Recompute this table top using a
                                                                                                                                                                                                     template table top.")))
                                                                                                                                            (|Add cards to TableTop| (FUNCTION
                                                                                                                                                                                                              {\tt NCTableTop.AddSelectedCardsToTableTop}
                                                                                                                                                               "Add cards to the table top.")
                                                                                                                                            (|Remove cards from TableTop| (FUNCTION
                                                                                                                                                                                                                                 {\tt NCTableTop.RemoveSelectedCards}
                                                                                                                                                               "Remove cards from the table top.")
                                                                                                                                            (|Show cards in TableTop| (FUNCTION
                                                                                                                                                                                                                                    NCTableTop.OpenCardInTableTop
                                                                                                                                                               "Bring up one of the cards in the table top choosing
                                                                                                                                            from a menu of card titles.")

(|Bring up TableTop| (FUNCTION NCTableTop.BringUpTableTop)

"Bring up the table top cards in proper layout.")

(|Close down TableTop| (FUNCTION NCTableTop.CloseDownTableTop
                                                                                                                                                               "Close all cards in the table top."]
;;; The following functions are exported, i.e. documented and callable from outside.
                      (FNS NCTableTop.BringUpTableTop NCTableTop.OpenCardInTableTop NCTableTop.CloseDownTableTop NCTableTop.RemoveCardsFromTableTop
                                   NCTableTop.AddCardsToTableTop)
                      (FNS NCTableTop.CardsInTableTop NCTableTop.CollectCards)
                      (FNS NCTableTop.TableTopBasedP)
;;; The rest are internal.
                      (\texttt{FNS} \ \texttt{NCTableTop.ComputeTableTop} \ \texttt{NCTableTop.ComputeTEntryProps} \ \texttt{NCTableTop.ComputeCardsFromTemplate})
                                   NCTableTop.BringUpCardInTableTop NCTableTop.ProcessTTEntryProps)
                       (FNS NCTableTop.RemakeTableTopSelectingNewCards NCTableTop.RemakeTableTopSelectingNewCardsInOrder
                                   {\tt NCTableTop.ComputeTableTopUsingTemplate\ NCTableTop.RemoveSelectedCards\ }
                                   NCTableTop.AddSelectedCardsToTableTop)
                      (FNS NCTableTop.AddOpenEventsExpr NCTableTop.NoteFileWhenOpenedFn
                                   NCTableTop.MakeOrUpdateNoteFileTableTop NCTableTop.FixNoteFileOperationsMenus
                                   NCTableTop.CloseNoteFileSavingTableTop.NCTableTop.CloseSessionSavingTableTops)
                       (FNS NCTableTop.MakeFn NCTableTop.EditFn NCTableTop.PutFn NCTableTop.GetFn)
                      (FNS NCTableTop.ReplaceUIDsFn)
```

```
;; rht 1/14/88: Now hangs the ShrunkenWinPos on the window around call to SHRINKW so that card window's SHRINKFN can find it.

;; rht 2/4/88: Moved guts of this function into NCTableTop.BringUpCardInTableTop.

;; rht 5/30/88: No longer uses NC.ActivateCardAndDo macro. We do it manually so can prevent uncaching in case where tabletop card is in its ;; own tabletop.

;; jrc 19-sep-88 -- returns the list of cards brought up, added DoNotUnCacheFlg param.

(LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow))

WasCachedFlg CardsBroughtUp)

(if (NOT (SETQ WasCachedFlg (NCP.CardCachedP TableTopCard)))

then (NCP.CacheCards TableTopCard))
```

(SETQ CardsBroughtUp (for TableTopEntry Card in (NCP.CardSubstance TableTopCard)

(if (NOT (OR WasCachedFlg DoNotUnCacheFlg (NCP.CardWindow TableTopCard)))
 then (NCP.CloseCards TableTopCard))

CardsBroughtUp]) (NCTableTop.OpenCardInTableTop

when (SETQ Card (NCTableTop.BringUpCardInTableTop TableTopEntry)) collect Card))

;;; Open one of the cards in TableTopCard. ;; pmi 2/18/88: Added check for non-nil menu items, in case the TableTop card has no entries. ;; rht 5/30/88: No longer uses NC.ActivateCardAndDo macro. We do it manually so can prevent uncaching in case where tabletop card itself was ;; the one brought up. (**DECLARE** (GLOBALVARS NC.MsgDelay)) (OR InterestedWindow (SETQ InterestedWindow (NCP.CoerceToInterestedWindow TableTopCardOrWindow))) (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow)) WasCachedFlg MenuItems Menu)
(if (NOT (SETQ WasCachedFlg (NCP.CardCachedP TableTopCard))) then (NCP.CacheCards TableTopCard)) (if [SETQ MenuItems (for TableTopEntry in (NCP.CardSubstance TableTopCard) bind CardSubstance TableTopCard))when (NCP.ValidCardP (SETQ Card (fetch (TableTopEntry Card) of TableTopEntry))) then (SETQ Menu (create MENU ITEMS _ MenuItems
TITLE _ "Open card in TableTop?")) (NCTableTop.BringUpCardInTableTop (MENU Menu)) else (NC.PrintMsg InterestedWindow T "No cards in this TableTop.") (DISMISS NC.MsgDelay) (NC.ClearMsg InterestedWindow T)) then (NCP.CloseCards TableTopCard]) (NCTableTop.CloseDownTableTop ; Edited 5-Apr-89 15:25 by pmi [LAMBDA (TableTopCardOrWindow) ;; Close all the cards in the table top. ;; pmi 4/4/89: Now passes T to NCP.CloseCards as Don'tForceFilingFlg (new). Keeps cards in tabletops from bugging user about filing when the ;; tabletop is closed down. (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow))) (NC.ActivateCardAndDo TableTopCard (for TableTopEntry in (NCP.CardSubstance TableTopCard) bind Card when (NCP.ValidCardP (SETQ Card (fetch (TableTopEntry Card) of TableTopEntry))) do (NCP.CloseCards Card T T]) (NCTableTop.RemakeTableTop [LAMBDA (TableTopCardOrWindow ListOfCards RetainClosedCardsFlg NoToTopOrder) ; Edited 4-May-89 10:18 by pmi ;; Rebuild the substance of TableTopCard using a new list of cards. ;; pmi 2/19/88: Added RetainClosedCardsFlg argument to be passed in as T when we know that we want closed cards included in the TableTop. ;; Also added check for 'CANCELLED. ;; pmi 5/4/89: Added NoToTopOrder argument. If non-NIL, disables ordering of cards in tabletop by their TOTOPW order. The order in which the ;; cards are selected is used instead. (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow)) NewTableTop) (OR (NC.ActiveCardP TableTopCard) (NCP.CacheCards TableTopCard)) (if (NEQ (SETQ NewTableTop (NCTableTop.ComputeTableTop ListOfCards TableTopCard RetainClosedCardsFlg NoToTopOrder)) 'CANCELLED) then (NC.SetSubstance TableTopCard NewTableTop) (NC.MarkCardDirty TableTopCard]) (NCTableTop.RecomputeTableTop [LAMBDA (TableTopCardOrWindow NoToTopOrder) ; Edited 4-May-89 10:20 by pmi ;; Reusing the cards in the TableTopCard, recompute the substance based on the card's new shapes, positions, and totopw ordering. ;; pmi 2/19/88: Added check for 'CANCELLED. ;; pmi 5/4/89: Added NoToTopOrder argument. If non-NIL, disables ordering of cards in tabletop by their TOTOPW order. The order in which the ;; cards are selected for the tabletop is used instead. (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow)) NewTableTop) (OR (NC.ActiveCardP TableTopCard) (NCP.CacheCards TableTopCard) (if (NEQ (SETQ NewTableTop (NCTableTop.ComputeTableTop (for TableTopEntry in (NC.FetchSubstance TableTopCard) bind Card when (NCP.ValidCardP (SETQ Card (**fetch** (TableTopEntry Card) of TableTopEntry))) collect Card) TableTopCard NIL NoToTopOrder)) 'CANCELLED) then (NC.SetSubstance TableTopCard NewTableTop) (NC.MarkCardDirty TableTopCard])

)

)

```
(NCTableTop.RemoveCardsFromTableTop
  [LAMBDA (TableTopCardOrWindow CardsToRemove)
                                                                        ; Edited 27-Jun-88 11:26 by Trigg
    ;; Remove the cards in CardsToRemove from the tabletop.
    ;; rht&jrc 6/27/88: Now returns the cards actually removed.
    (if CardsToRemove
        then (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow))
                   NewSubstance InitialSubstance)
(OR (NCP.CardCachedP TableTopCard)
                        (NCP.CacheCards TableTopCard))
                   (SETQ InitialSubstance (NCP.CardSubstance TableTopCard))
                   (SETQ NewSubstance (for TableTopEntry in InitialSubstance
                                            unless (FMEMB (fetch (TableTopEntry Card) of TableTopEntry)
                                                           CardsToRemove)
                                            collect TableTopEntry))
                   (if (LESSP (LENGTH NewSubstance)
                               (LENGTH InitialSubstance))
                       then (NCP.CardSubstance TableTopCard NewSubstance)
                             (NCP.MarkCardDirty TableTopCard))
                   ;; Return the cards that were actually removed.
                   (for TableTopEntry in InitialSubstance bind Card when (FMEMB (SETQ Card (fetch (TableTopEntry
                                                                                                          Card)
                                                                                                      of TableTopEntry))
                                                                                      CardsToRemove)
                      collect Card])
(NCTableTop.AddCardsToTableTop
  [LAMBDA (TableTopCardOrWindow CardsToAdd InterestedWindow)
                                                                        ; Edited 27-Jun-88 11:35 by Trigg
    ;; Add the cards in CardsToAdd to the tabletop.
    :; rht&irc 6/27/88: Now returns any new cards added.
    (DECLARE (GLOBALVARS NC.MsgDelay))
    (OR InterestedWindow (SETQ InterestedWindow (NCP.CoerceToInterestedWindow TableTopCardOrWindow)))
    (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow))
          OldTableTopCards TotalCards NewTableTop)
          (SETQ OldTableTopCards (NCTableTop.CardsInTableTop TableTopCard))
          (if (NEQ (SETQ TotalCards (UNION CardsToAdd OldTableTopCards))
                  OldTableTopCards)
              then (OR (NC.ActiveCardP TableTopCard)
     (NCP.CacheCards TableTopCard)
                   (if (NEQ (SETQ NewTableTop (NCTableTop.ComputeTableTop TotalCards TableTopCard T))
                             CANCELLED)
                       then (NC.SetSubstance TableTopCard NewTableTop)
                             (NC.MarkCardDirty TableTopCard)
                             ;; If successful, return new cards added.
                             (LDIFFERENCE TotalCards OldTableTopCards)
                     else NIL)
           else (NCP.PrintMsg InterestedWindow T "No new cards specified.")
                 (DISMISS NC.MsgDelay)
                 (NC.ClearMsg InterestedWindow T)
                NIL1)
(DEFINEQ
(NCTableTop.CardsInTableTop
                                                                        ; Edited 11-May-88 11:27 by Trigg
  [LAMBDA (TableTopCard)
    ;; Return the set of cards appearing in this tabletop.
    (NC.ActivateCardAndDo TableTopCard (for TableTopEntry in (NCP.CardSubstance TableTopCard) bind Card
                                               when (NCP.ValidCardP (SETQ Card (fetch (TableTopEntry Card)
                                                                                      of TableTopEntry)))
                                               collect Card])
(NCTableTop.CollectCards
  [LAMBDA (RootTableTopCards LinkTypes MaxDepth FollowCrossFileLinksFlg)
                                                                        ; Edited 11-May-88 11:32 by Trigg
    ;; Return the list of cards reachable from the given tabletops following given link types up to given MaxDepth.
    (SETQ RootTableTopCards (MKLIST RootTableTopCards))
    (if (GEO MaxDepth 1)
        then \hbox{ (UNION RootTableTopCards (NCP.CollectCards (} \textit{for} \hbox{ TableTopCard in RootTableTopCards )} \\
                                                                 join (NCTableTop.CardsInTableTop TableTopCard))
                                                 LinkTypes
                                                  (SUB1 MaxDept.h)
                                                 FollowCrossFileLinksFlg))
      else RootTableTopCardsl)
```

(DEFINEO

```
(NCTableTop.TableTopBasedP
                                                                              ; Edited 12-Jul-88 18:14 by Trigg
  [LAMBDA (CardOrCardType)
    ;; Return non-nil if CardOrCardType is a subtype of the TableTop card type. If CardOrCardType is a card, use its card type.
     (NCP.IsSubTypeOfP (if (NC.CardP CardOrCardType)
                               then (NCP.CardType CardOrCardType)
                             else CardOrCardType)
             'TableTop])
;;; The rest are internal.
(DEFINEQ
(NCTableTop.ComputeTableTop
  [LAMBDA (ListOfCards TableTopCard RetainClosedCardsFlg NoToTopOrder)
                                                                              ; Edited 22-Aug-89 19:01 by pmi
     ;; This looks at all the open windows and computes the tabletop, a list of records containing card, windowregion, shrunken window position, and
    ;; flag indicating whether window is shrunken. Only done for those entries in ListOfCards that have open windows. TOTOPW order is preserved.
    ;; rht 1/21/88: Had to do REVERSE to get the right to-top order. Wonder whether (OPENWINDOWS) reversed in lyric.
    ;; pmi 2/17/88: Added check for ListOfCards in case user cancels operation.
    ;; pmi 2/19/88: Added TableTopCard and RetainClosedCardsFlg arguments. If RetainClosedCardsFlg is non-NIL, cards that are closed will be ;; added to the TableTop using their region stored in the notefile. If RetainClosedCardsFlg is NIL, the user will be asked to confirm deleting closed
     ;; cards from the TableTop.
    ;; rht 5/13/88: Simplified code for above fix a bit and made sure all the variables were bound. Also added call to
     ;; NCTableTop.ComputeTTEntryProps.
     ;; pmi 5/4/89: TOTOPW order is preserved unless NoToTopOrder is non-NIL. In that case, keeps entries in tabletop in same order as in
     ;; ListOfCards, so user can control order in which cards are opened.
     (RESETLST
          (RESETSAVE (CURSOR WAITINGCURSOR))
          [if (NEQ ListOfCards 'DON'T)
              then (LET (OpenWindows NewTableTopEntries OpenCardsList ClosedCardsList ClosedCardTTEntryPairs
                                  AdditionalTableTopEntries)
                          (SETQ OpenWindows (OPENWINDOWS))
                          [if NoToTopOrder
                              then [SETQ NewTableTopEntries (for Card in ListOfCards bind Win ShrunkenFlg Icon IconWin
                                                                      when (AND (SETQ Win (NCP.CardWindow Card))
                                                                                   (OR (SETQ ShrunkenFlg
                                                                                         (FMEMB (SETQ Icon (WINDOWPROP
                                                                                                                Win
                                                                                                                'ICON))
                                                                                                 OpenWindows))
                                                                                        (FMEMB Win OpenWindows)))
                                                                      collect (push OpenCardsList Card)
                                                                              (create TableTopEntry
                                                                                      Card _ Card
                                                                                      Region _
                                                                                                 (WINDOWPROP Win 'REGION)
                                                                                      ShrunkenWinPos _
                                                                                          (Icon (WINDOWPOSITION Icon))
                                                                                          ([WINDOWP (SETQ IconWin
                                                                                                       (WINDOWPROP Win
                                                                                                               'ICONWINDOW]
                                                                                           (WINDOWPOSITION IconWin)))
                                                                                      ShrunkenFlg _ (AND ShrunkenFlg T)
                                                                                      Props
                                                                                      (if ShrunkenFlg
                                                                                           then (NCTableTop.ComputeTTEntryProps
                                                                                                  Card Icon Win)
                                                                                        else (NCTableTop.ComputeTTEntryProps
                                                                                              Card Winl
                            else (SETO NewTableTopEntries
                                   (REVERSE (for Win in OpenWindows bind Card IconFor IconWin
                                                 when (AND (SETQ Card (NC.CoerceToCard (OR (SETQ IconFor
                                                                                                      (WINDOWPROP Win 'ICONFOR))
                                                                                                    Win)))
                                                              (FMEMB Card ListOfCards))
                                                 collect (push OpenCardsList Card)
                                                         (create TableTopEntry
                                                                 Card _ Card
                                                                 Region _ (WINDOWPROP (OR IconFor Win)
                                                                                    'REGION)
                                                                 ShrunkenWinPos _ (COND
                                                                                          (IconFor (WINDOWPOSITION Win))
                                                                                         ([WINDOWP (SETQ IconWin
                                                                                                      (WINDOWPROP Win
                                                                                                               'ICONWINDOW]
                                                                                           (WINDOWPOSITION IconWin)))
                                                                                  (AND IconFor T)
                                                                 ShrunkenFlg
```

Props _ (NCTableTop.ComputeTTEntryProps Card Win IconFor]

```
;; Get the poop on cards in this tabletop that are currently closed.
                        (SETQ ClosedCardsList (LDIFFERENCE ListOfCards OpenCardsList))
                        (SETQ ClosedCardTTEntryPairs (for TableTopEntry in (NCP.CardSubstance TableTopCard)
                                                            bind Card when (AND (NCP.ValidCardP (SETQ Card
                                                                                                      (fetch (TableTopEntry
                                                                                                              Card)
                                                                                                         of TableTopEntry)))
                                                                                   (FMEMB Card ClosedCardsList))
                                                            collect (CONS Card TableTopEntry)))
                        (if RetainClosedCardsFlq
                            then ;; If some of the cards are closed, use any saved version or make a new one.
                                  (NCONC (for ClosedCard in ClosedCardsList when (NCP.ValidCardP ClosedCard)
                                             collect (OR (CDR (FASSOC ClosedCard ClosedCardTTEntryPairs))
                                                         (create TableTopEntry
                                                                Card _ ClosedCard
                                                                         _ (NCP.CardRegion ClosedCard)
                                                                Region
                                                                ShrunkenFlg _ NIL)))
                                         NewTableTopEntries)
                              ;; If some of the cards are closed, check with the user about deleting them from the TableTop.
                               [{\tt SETQ} \ {\tt AdditionalTableTopEntries}
                                (for ClosedCard in ClosedCardsList
                                   when [AND (NCP.ValidCardP ClosedCard)
                                               (SELECTQ (RESETLST
                                                              (RESETSAVE (CURSOR T))
                                                              (NC.AskUserWithMenu '(Cancel Keep Remove)
(MKSTRING (CONCAT "Card %"" (NC.FetchTitle
                                                                                                              ClosedCard)
                                                                                         "%" is closed. Keep it or remove
                                                                                         from this tabletop?"))
                                                                      (NCP.CoerceToInterestedWindow TableTopCard)))
                                                     (Cancel (RETURN 'CANCELLED))
                                                     (Keep T)
                                                     (Remove NIL)
                                                    (RETURN 'CANCELLED]
                                   collect (OR (CDR (FASSOC ClosedCard ClosedCardTTEntryPairs))
                                               (create TableTopEntry
                                                       Card _ ClosedCard
Region _ (NCP.Car
                                                                 (NCP.CardRegion ClosedCard]
                                  (EQ AdditionalTableTopEntries 'CANCELLED)
                                   then 'CANCELLED
                                 else (NCONC AdditionalTableTopEntries NewTableTopEntries])])
(NCTableTop.ComputeTTEntryProps
                                                                         ; Edited 22-Aug-89 19:01 by pmi
  [LAMBDA (Card Window IconFor)
    ;; Extract info from Card and its window about its display. This includes scrolling info as well as other cardtype-dependent junk. If Card is
    ;; shrunken, then Window is the shrunken icon for IconFor window. Else IconFor should be nil.
    ;; rht 7/21/88: Now computes scrolling info for File cards as well.
    ;; pmi 3/28/89: Now Window will always be expanded version, not shrunken. (See changes to NCTabletop.ComputeTableTop). Removed IconFor
    ;; pmi 8/22/89: No, Window will not always be expanded, so reinstated IconFor Argument.
    (COND
       [(OR (NCP.TextBasedP Card)
             (NCP.IsSubTypeOfP (NCP.CardType Card)
                     'File))
       '(ScrollingInfo ,(NC.UpperLeftCH# (OR IconFor Window) [(NCP.GraphBasedP Card)
         (ScrollingInfo , (DSPCLIPPINGREGION NIL Window)
                 ,@[if (FMEMB (WINDOWPROP Window 'BrowserOverviewWin)
                               (ATTACHEDWINDOWS Window))
                        then '(BrowserOverviewSpecs , (create NCTableTop.BrowserOverviewSpecs
                                                                 OverviewWinWidth _ (WINDOWPROP Window
                                                                                              'OverviewWinWidth)
                                                                 OverviewWinHeight _ (WINDOWPROP Window
                                                                                               'OverviewWinHeight)
                                                                 WHERETOATTACHOVERVIEWWIN _ (WINDOWPROP Window
                                                                                                    WHERETOATTACHOVERVIEWWIN
                                                                                    (WINDOWPROP Window 'OVERVIEWWINMODE]
                                                                 OVERVIEWWINMODE
                 ,@(if (for Win in (ATTACHEDWINDOWS Window)
                                                               never (WINDOWPROP Win 'LINKSLEGENDWINP))
                        then '(ClosedLinksLegendFlg T))
                       (for Win in (ATTACHEDWINDOWS Window) thereis (WINDOWPROP Win 'GRAPHEDITMENUFLG))
                        then '(GraphEditMenuFlg T)
        ((NCP.SketchBasedP Card)
         (ScrollingInfo , (DSPCLIPPINGREGION NIL Window)
                 ,@(if [NOT (OPENWP (WINDOWPROP Window 'SKETCHFIXEDMENU]
                        then '(ClosedSketchMenuFlg T])
```

```
[LAMBDA (TableTopCard Window TemplateCard)
                                                                      ; Edited 3-Apr-89 17:05 by pmi
    ;; If TemplateCard is NIL, asks user to pick one from existing table tops. Then asks user to select cards to persist and cards to copy for the new
    ;; table top.
     ((InterestedWindow (OR (OPENWP Window)
                              (NCP.CoerceToInterestedWindow TableTopCard)))
      CardsInTemplate PersistentCards CardsToBeCopied)
      TemplateCard
      (if (EQ (SETQ TemplateCard (NCP.SelectCards InterestedWindow T (FUNCTION NCP.ValidCardP)
                                          "Select a table top card to use as a template for the new table top." T))
             'DON'T)
             (SETQ CardsInTemplate (NCTableTop.CardsInTableTop TemplateCard))
             (NCTableTop.BringUpTableTop TemplateCard)
             (if (EQ (SETQ PersistentCards (NCP.SelectCards InterestedWindow NIL \[LAMBDA (Card)
                                                                                          (MEMB Card CardsInTemplate]
                                                    "Select cards to persist from this table top." T))
                    'DON'T)
               elseif (EQ (SETQ CardsToBeCopied (NCP.SelectCards InterestedWindow NIL '[LAMBDA (Card)
                                                                                               (MEMB Card
                                                                                                     CardsInTemplate]
                                                         "Select cards to be copied from this table top." T))
                         'DON'T)
               else (PROG1 [for OldCard in CardsInTemplate bind NewCard NewCardWindow NewCardTextStream
                                                                  NewCardTextLength OldCardIconWindow
                                                                  OldCardIconWindowRegion ShrunkenWinPos
                              when (OR (FMEMB OldCard PersistentCards)
                                         (FMEMB OldCard CardsToBeCopied))
                              collect (if
                                         (FMEMB OldCard PersistentCards)
                                          then OldCard
                                        else (PROG1 (SETQ NewCard (CAR (NCP.CopyCards OldCard NIL NIL T 'DON'TCOPY
                                                                                 InterestedWindow T)))
                                                 (SETQ NewCardWindow (NCP.OpenCard NewCard (NCP.CardRegion OldCard))
                                                 (SETQ NewCardTextStream (TEXTSTREAM NewCardWindow))
                                                 (SETQ NewCardTextLength (TEDIT.NCHARS NewCardTextStream))
                                                 ;; Delete any text in the copy, hopefully preserving the looks for new text.
                                                    (GREATERP NewCardTextLength 0)
                                                     then (TEDIT.DELETE NewCardTextStream 1 NewCardTextLength))
                                                    [OPENWP (SETQ OldCardIconWindow (WINDOWPROP (NCP.CardWindow
                                                                                                     OldCard)
                                                     then (SETQ OldCardIconWindowRegion (WINDOWPROP
                                                                                                   OldCardIconWindow
                                                                                                    REGION))
                                                          (SETQ ShrunkenWinPos (create POSITION
                                                                                         XCOORD _ (fetch (REGION LEFT)
                                                                                                      of
                                                                                                  OldCardIconWindowRegion
                                                                                         YCOORD _ (fetch
                                                                                                         (REGION BOTTOM)
                                                                                                      of
                                                                                                  OldCardIconWindowRegion
                                                          (WINDOWPROP NewCardWindow 'SHRUNKENWINPOS ShrunkenWinPos)
                                                          (SHRINKW NewCardWindow NIL ShrunkenWinPos)
(WINDOWPROP NewCardWindow 'SHRUNKENWINPOS NIL)))]
                        (if PersistentCards
                            then (NCP.CloseCards (LDIFFERENCE CardsInTemplate PersistentCards)
                          else (NCP.CloseCards CardsInTemplate T)))])
(NCTable Top. Bring Up Card In Table Top
                                                                      ; Edited 19-Sep-88 16:30 by jrc
  [LAMBDA (TableTopEntry)
    ;; Bring up particular card in tabletop designated by TableTopEntry.
    ;; rht 5/13/88: Now calls NCTableTop.ProcessTTEntryProps to do things like scroll window properly.
    ;; jrc 19-sep-88 returns card, if it was opened.
    (LET ((Card (fetch (TableTopEntry Card) of TableTopEntry))
           (Region (fetch (TableTopEntry Region) of TableTopEntry))
          (ShrunkenWinPos (fetch (TableTopEntry ShrunkenWinPos) of TableTopEntry))
          Win)
         (if (AND
                  (NCP.ValidCardP Card)
                  (REGIONP Region))
                  (SETQ Win (NCP.OpenCard Card Region))
             then
                   (NCTableTop.ProcessTTEntryProps Card Win (fetch (TableTopEntry Props) of TableTopEntry))
                   (if (AND (fetch (TableTopEntry ShrunkenFlg) of TableTopEntry)
                            (POSITIONP ShrunkenWinPos))
                       then (WINDOWPROP Win 'SHRUNKENWINPOS ShrunkenWinPos)
                            (SHRINKW Win NIL ShrunkenWinPos)
                            (WINDOWPROP Win 'SHRUNKENWINPOS NIL))
                  Cardl)
```

```
(NCTableTop.ProcessTTEntryProps
  [LAMBDA (Card Window Props)
                                                                         ; Edited 21-Jul-88 21:07 by Trigg
    ;; Massage Window according to Props including scrolling.
    ;; rht 7/21/88: Now processes scrolling info for File cards as well.
    (LET [(ScrollingInfo (LISTGET Props 'ScrollingInfo]
          ;; Handle scrolling first
          [COND
              ((OR (NCP.TextBasedP Card)
                   (NCP.IsSubTypeOfP (NCP.CardType Card)
                           'File))
               (if (AND (NUMBERP ScrollingInfo)
                        (GEQ ScrollingInfo 2))
                   then (NC.ScrollToCH# Window ScrollingInfo)))
              ((REGIONP ScrollingInfo)
               (LET ((CurDisplayRegion (DSPCLIPPINGREGION NIL Window)))
                     (SCROLLW Window (DIFFERENCE (fetch (REGION LEFT) of CurdisplayRegion)
                                               (fetch (REGION LEFT) of ScrollingInfo))
                             (DIFFERENCE (fetch (REGION BOTTOM) of CurDisplayRegion)
                                    (fetch (REGION BOTTOM) of ScrollingInfo]
          ;; Take care of random browser and sketch processing
              ((NCP.GraphBasedP Card)
              ;; If there are saved specs for the browser overview, then install them on the window and make a browser overview win.
               (LET [(BrowserOverviewSpecs (LISTGET Props 'BrowserOverviewSpecs]
                     (if BrowserOverviewSpecs
                         then (WINDOWPROP Window 'OverviewWinWidth (fetch (NCTableTop.BrowserOverviewSpecs
                                                                                       OverviewWinWidth)
                                                                            of BrowserOverviewSpecs))
                              (\verb|WINDOWPROP| \verb|Window|' Overview \verb|WinHeight| (\textbf{fetch}| (\verb|NCTableTop.BrowserOverview Specs|)) \\
                                                                                        OverviewWinHeight)
                                                                             of BrowserOverviewSpecs))
                              (WINDOWPROP Window 'WHERETOATTACHOVERVIEWWIN (fetch (NCTableTop.BrowserOverviewSpecs
                                                                                         WHERETOATTACHOVERVIEWWIN)
                                                                                     of BrowserOverviewSpecs))
                              (WINDOWPROP Window 'OVERVIEWWINMODE (fetch (NCTableTop.BrowserOverviewSpecs
                                                                                      OVERVIEWWINMODE)
                                                                          of BrowserOverviewSpecs))
                              (NC.MakeBrowserOverviewWin Window)))
              ;; Check whether links legend window should be closed..
               (if (LISTGET Props 'ClosedLinksLegendFlg)
                   then (for Win in (ATTACHEDWINDOWS Window) when (WINDOWPROP Win 'LINKSLEGENDWINP)
                            do (CLOSEW Win)))
              ;; Check whether graph edit menu needs to be attached.
                  (LISTGET Props 'GraphEditMenuFlg)
                   then (NC.SetUpGraphEditMenus Window)
                         (NC.BrowserFixGraphEditMenuFn Window)))
              ((NCP.SketchBasedP Card)
              ;; Check whether sketch menu should be closed..
                  (LISTGET Props 'ClosedSketchMenuFlg)
                   then (LET [(SketchMenuWin (WINDOWPROP Window 'SKETCHFIXEDMENU]
                              (AND (OPENWP SketchMenuWin)
(CLOSEW SketchMenuWin])
(DEFINEQ
(NCTableTop.RemakeTableTopSelectingNewCards
  [LAMBDA (TableTopCardOrWindow InterestedWindow NoToTopOrder)
                                                                        : Edited 4-May-89 14:15 by pmi
;;; Rebuild the substance of TableTopCard using a new list of cards provided by the user.
    ;; rht 1/23/88: Added InterestedWindow and pass to NCP.SelectCards.
    ;; pmi 2/19/88: Now passes T to NCTableTop.RemakeTableTop as RetainClosedCardsFlg - this allows the user to select new cards from link icons
    ;; even though they are not up on the screen.
    ;; pmi 5/4/89: Added NoToTopOrder argument. If non-NIL, disables ordering of cards in tabletop by their TOTOPW order. The order in which the
    ;; cards are selected is used instead.
    (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow))
           ListOfCards)
          (SETQ ListOfCards (NCP.SelectCards (OR (OPENWP InterestedWindow)
                                                       TableTopCard)
                                       (FUNCTION NCP. ValidCardP)
                                       "Choose new cards for rebuilding table top." T))
          (if (EQ ListOfCards 'DON'T)
            else (NCTableTop.RemakeTableTop TableTopCard ListOfCards T NoToTopOrder])
```

as rest of NoteCards.)

```
(NCTableTop.RemakeTableTopSelectingNewCardsInOrder
                                                                         ; Edited 4-May-89 14:22 by pmi
  [LAMBDA (TableTopCardOrWindow InterestedWindow)
    ;; Remake the tabletop using the order of selection for the order of the cards in the tabletop.
     (NCTableTop.RemakeTableTopSelectingNewCards TableTopCardOrWindow InterestedWindow T])
(NCTableTop.ComputeTableTopUsingTemplate
  [LAMBDA (TableTopCardOrWindow InterestedWindow)
                                                                         ; Edited 4-May-89 15:19 by pmi
;;; Rebuild the substance of TableTopCard using a template card provided by the user.
    (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow))
           ListOfCards)
          (SETQ ListOfCards (NCTableTop.ComputeCardsFromTemplate TableTopCard InterestedWindow))
          (if (EQ ListOfCards 'DON'T)
              then NIL
            else (NCTableTop.RemakeTableTop TableTopCard ListOfCards T])
(NCTableTop.RemoveSelectedCards
                                                                         ; Edited 27-Jun-88 11:26 by Trigg
   [LAMBDA (TableTopCardOrWindow InterestedWindow)
;;; User selects a set of cards to remove from the tabletop. User picks cards to remove by successive selections from an ever shrinking menu of card
;;; titles.
;;; 16-jun-88 jrc. Function now returns the list of cards removed, or NIL if none removed.
     (DECLARE (GLOBALVARS NC.MsgDelay))
     (OR InterestedWindow (SETQ InterestedWindow (NCP.CoerceToInterestedWindow TableTopCardOrWindow)))
    (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow))
           CardsToRemove MenuItems)
          (if [SETQ MenuItems (for Card in (NCTableTop.CardsInTableTop TableTopCard)
                                   collect `(, (NCP.CardTitle Card)
                                               Card "Remove card with this title from tabletop."]
              then (SETQ CardsToRemove (for bind ChosenCard
                                             eachtime [SETQ ChosenCard
                                                        (AND MenuItems
                                                              (MENU (create MENU
                                                                                   _ MenuItems
                                                                            ITEMS
                                                                                     "Choose cards to remove"]
                                                                            TITLE
                                              while ChosenCard collect
                                                                         ; Shrink the MenuItems by one item and ask again.
                                                                       (SETQ MenuItems
                                                                        (DREMOVE (for MenuItem in MenuItems
                                                                                     thereis (EQ ChosenCard (CADADR
                                                                                                                     MenuItem
                                                                                                                      )))
                                                                                MenuItems))
                                                                       ChosenCard))
                                                                        "You've selected " (LENGTH CardsToRemove)
                    (if (AND CardsToRemove (NCP.AskYesOrNo (CONCAT
                                                                         card(s) to remove."
                                                    (CHARACTER 13))
"Okay to remove them? " "Yes" T InterestedWindow))
                        then \quad (\textbf{NCTableTop}. \textbf{RemoveCardsFromTableTop} \  \, \texttt{TableTopCard} \  \, \texttt{CardsToRemove}) \, )
            else (NCP.PrintMsg InterestedWindow T "No cards in this tabletop.")
                 (DISMISS NC.MsqDelay)
                 (NC.ClearMsg InterestedWindow T)
                 NIL])
(NCTableTop.AddSelectedCardsToTableTop
                                                                         ; Edited 27-Jun-88 11:35 by Trigg
  [LAMBDA (TableTopCardOrWindow InterestedWindow)
;;; Add some new cards provided by the user to the tabletop.
    (LET ((TableTopCard (NCP.CoerceToCard TableTopCardOrWindow))
          (SETQ CardsToAdd (NCP.SelectCards (OR (OPENWP InterestedWindow)
                                                     TableTopCard)
                                     (FUNCTION NCP. ValidCardP)
                                     "Choose cards to add to table top." T))
          (if (EQ CardsToAdd 'DON'T)
            else (NCTableTop.AddCardsToTableTop TableTopCard CardsToAdd InterestedWindow])
(DEFINEQ
(NCTableTop.AddOpenEventsExpr
                                                                         (* rht%: "16-May-87 20:12")
  [LAMBDA (NoteFile)
           (* * Add an expression to the open events card for NoteFile, if it's not already there.)
           (* * rht 4/17/87%: Changed from FILESLOAD to call NC.LoadFileFromDirectories so that TTY window gets handled same
```

```
(DECLARE (GLOBALVARS NCTableTop.OpenEventsExpr NCTableTop.OldOpenEventsExprs))
     (if (NCP.OpenNoteFileP NoteFile)
         then (LET ((OpenEventsCard (NCP.GetOpenEventsCard NoteFile))
                      OpenEventsCardWasCachedFlg)
           (* * Add call to NCHist.NoteFileWhenOpenedFn to the open events card substance.)
                     (if (NOT (SETQ OpenEventsCardWasCachedFlg (NCP.ActiveCardP OpenEventsCard)))
                         then (NCP.CacheCards OpenEventsCard))
            (* * Remove any outdated tabletop OpenEvents expr's from the open events card substance, taking care not to dirty the
           substance unless necessary.)
                     (for OldOpenEventsExpr in NCTableTop.OldOpenEventsExprs bind Substance
                        when (MEMBER OldOpenEventsExpr (SETQ Substance (NCP.CardSubstance OpenEventsCard)))
do (NCP.CardSubstance OpenEventsCard (REMOVE OldOpenEventsExpr Substance)))
           (* * Add the proper expression unless it's already there.)
                     [ \begin{tabular}{ll} \textbf{if} & (\texttt{NOT} & (\texttt{MEMBER} & \texttt{NCTableTop.OpenEventsExpr} & (\texttt{NCP.CardSubstance} & \texttt{OpenEventsCard}))) \end{tabular}
                         then (NCP.CardSubstance OpenEventsCard (CONS NCTableTop.OpenEventsExpr (NCP.CardSubstance
                                                                                                               OpenEventsCardl
                     (if (NOT OpenEventsCardWasCachedFlg)
                         then (NCP.CloseCards OpenEventsCard)))
      else (NCP.ReportError "NCTableTop.AddOpenEventsExpr" (CONCAT "Can't add OpenEvents expression to closed notefile: " NoteFile])
(NCTableTop.NoteFileWhenOpenedFn
  [LAMBDA (NoteFile)
                                                                             (* rht%: "12-Feb-87 17:43")
            (* * Look for the TableTop card left from previous closing. If there is one, then bring it up.)
    (LET ((TableTopCard (NCP.LookupCardByName 'NoteFileTableTop NoteFile)))
          (if (NCP.ValidCardP TableTopCard)
               (NCTableTop.BringUpTableTop TableTopCard)
            (* Smash substance so this table top won't be brought up next time notefile is opened.)
                     (NCTableTop.RemakeTableTop TableTopCard NIL])
(NCTableTop.MakeOrUpdateNoteFileTableTop
                                                                             ; Edited 4-May-89 10:13 by pmi
  [LAMBDA (NoteFile NoToTopOrder)
    ;; Looks for a notefile tabletop card in the registry. If there is one, then update its contents with new table top based on current open cards. Else
    ;; make a new one and register it.
    ;; pmi 3/16/88: Now checks for valid TableTopCard before calling NCP.RegisterCardByName.
    ;; pmi 5/4/89: Added NoToTopOrder argument. If non-NIL, disables ordering of cards in tabletop by their TOTOPW order. The order in which the
    :: cards are selected is used instead.
    (LET ((TableTopCard (NCP.LookupCardByName 'NoteFileTableTop NoteFile)) (OpenCards (for Win in (OPENWINDOWS) bind Card
                            when (AND [NCP.ValidCardP (SETQ Card (NCP.CardFromWindow (OR (WINDOWPROP Win
                                                                                                               'ICONFOR)
                                                                                                      Winl
                                         (EQ NoteFile (NCP.CardNoteFile Card)))
                            collect Card)))
          (if (NCP.ValidCardP TableTopCard)
               then (NCTableTop.RemakeTableTop TableTopCard OpenCards NIL NoToTopOrder)
             elseif OpenCards
               then (SETQ TableTopCard (NCP.CreateCard 'TableTop NoteFile 'NoteFileTableTop T '(
                                                                                                              Don'tRequireFilingFlg
                                                                                                                T)
                                                    NIL OpenCards))
                     (AND (NCP.ValidCardP TableTopCard)
                           (NCP.RegisterCardByName 'NoteFileTableTop TableTopCard])
(NCTableTop.FixNoteFileOperationsMenus
                                                                             (* pmi%: "27-Mar-87 11:00")
  [LAMBDA NIL
               Change the CloseNoteFile menu item to have a pull-across for Close saving notefile tabletop.
            Do the same for the CloseSession item.)
            (* * pmi 3/27/87%: Updated for new Session icon menus.)
    (DECLARE (GLOBALVARS NC.NoteFileIconOperationsMenuItems NC.NoteFileOpsItems NC.NoteFileOpsMenu
    NC.NoteFileIconOpenOperations))
(LET [[NoteFileIconCloseItem '(Close NIL "Closes this NoteFile." (SUBITEMS (|Close w/o confirm | NIL
                                                                                                       "Close this notefile, but
                                                                                                       don't ask for user confirm
                                                                                                       before closing open
cards.")
```

```
(|Close Saving TableTop|
                                                                                       NCTableTop.CloseNoteFileSavingTableTop
                                                                                                 "Close this notefile, saving
                                                                                                 currently open cards in a
tabletop."]
            (NoteFileOperationsCloseItem '(| Close | (NC.DoNoteFileOp 'Close% NoteFile)
                                                       "Close a notefile."
                                                       (SUBITEMS ( | Close w/o confirm | (NC.DoNoteFileOp
                                                                                                   ' |Close w/o confirm|)
                                                                           "Close a notefile w/o asking for user confirm
                                                                          before closing open cards.")
                                                               (Close% All (NC.CloseSession)
                                                               "Close all currently open NoteFiles")
(|Close All w/o confirm| (NC.CloseSession NIL T)
                                                                       "Close all open notefiles w/o asking for user
                                                               confirm before closing open cards.")
(|Close Saving TableTop| (NC.DoNoteFileOp
                                                                                              (FUNCTION
                                                                                       {\tt NCTableTop.CloseNoteFileSavingTableTop}
                                                                                              ))
                                                                       "Close a notefile, saving currently open cards in a
                                                                       tabletop.")
                                                               ( | Close All Saving TableTops |
                                                                                          NCTableTop.CloseSessionSavingTableTops
                                                                       "Close all open notefiles saving their tabletops."]
          (PUTASSOC 'Close (CDR NoteFileIconCloseItem)
                  NC.NoteFileIconOperationsMenuItems)
          (pushnew NC.NoteFileIconOpenOperations ' | Close Saving TableTop | )
          (NC.MakeNoteFileIconOperationsMenus)
          (PUTASSOC ' | Close | (CDR NoteFileOperationsCloseItem)
                  NC.NoteFileOpsItems)
          (SETQ NC.NoteFileOpsMenu NIL])
(NCTableTop.CloseNoteFileSavingTableTop
                                                                           (* rht%: "30-Mar-87 23:31")
  [LAMBDA (NoteFile NoteFileIconWindow)
            (* * Close down the notefile, but save table top first.)
           (* * rht 3/30/87%: Minor change to keep it from bugging about saving open cards.)
     (NCTableTop.MakeOrUpdateNoteFileTableTop NoteFile)
     (NCTableTop.AddOpenEventsExpr NoteFile)
     (NC.CloseNoteFile NoteFile NoteFileIconWindow NIL T])
(NCTableTop.CloseSessionSavingTableTops
                                                                           ; Edited 8-Mar-88 14:37 by pmi
  [LAMBDA NIL
           (* * Close all open notefiles saving their table tops.)
     (DECLARE (GLOBALVARS NC.NoteFilesHashArray))
    [MAPHASH NC.NoteFilesHashArray (FUNCTION (LAMBDA (Value Key)
                                                       (if (AND (type? NoteFile Value)
                                                                    .NoteFileOpenP Value))
                                                           then (NCTableTop.CloseNoteFileSavingTableTop Value]
    (NC.PrintMsg NIL T "Done closing all NoteFiles."])
)
(DEFINEO
(NCTableTop.MakeFn
  [LAMBDA (TableTopCard Title NoDisplayFlg ListOfCards InterestedWindow RegionOrPosition)
                                                                           ; Edited 29-Mar-89 16:23 by pmi
    ;; Create a table top card substance. If ListOfCards is nil, ask user to select cards. Substance consists of list of pairs of card uid and screen
    ;; window region. Note that OPENWINDOWS is used to get proper TOTOPW ordering or cards.
    ;; rht 1/14/88: Now passes TableTopCard as instigating card to NCP.SelectCards in case NoDisplayFlg is set.
    ;; rht 1/23/88: Incredible kludge: NoDisplayFlg can be a window in which case pass it to NCP.SelectCards.
    ;; pmi 2/19/88: Added TableTopCard and T to call to NCTableTop.ComputeTableTop. T is the RetainClosedCardsFlg, and indicates that some of ;; ListOfCards may be closed, and should be included in the TableTop.
    ;; pmi 2/26/88: Solved NoDisplayFly kludge by passing in InterestedWindow argument.
    ;; rht 8/5/88: Added RegionOrPosition arg and passed to NC.MakeNewCardWindow.
    (LET (Window)
          (if (NOT NoDisplayFlg)
               then (SETQ Window (NC.MakeNewCardWindow TableTopCard (OR Title "Untitled")
                                           NIL NIL RegionOrPosition))
                    (NCP.SetUpTitleBar Window (NC.RetrieveType TableTopCard))
                    (WINDOWADDPROP Window 'SHRINKFN (FUNCTION NC.GraphCardShrinkFn))
            else (SETQ Window InterestedWindow))
               (LISTP ListOfCards)
               (if (NCP.AskYesOrNo "Use template table top? " NIL NIL T Window)
                   then (SETQ ListOfCards (NCTableTop.ComputeCardsFromTemplate TableTopCard Window))
```

```
else (SETQ ListOfCards (NCP.SelectCards (OR (OPENWP Window)
                                                                   TableTopCard)
                                                   NIL
                                                   (FUNCTION NCP. ValidCardP)
                                                   "Choose cards for table top." T]
          (if (EQ ListOfCards 'DON'T)
              then (NC.DeactivateCard TableTopCard)
                    (AND (WINDOWP Window)
                          (CLOSEW Window))
                   NIL
            else (NC.SetSubstance TableTopCard (NCTableTop.ComputeTableTop ListOfCards TableTopCard T))
                 (if NoDisplayFlg
                     then TableTopCard
                   else Window])
(NCTableTop.EditFn
  [LAMBDA (TableTopCard Substance Region/Position)
                                                                          ; Edited 30-May-88 15:05 by Trigg
    ;; Bringing up a table top card, for now, means to bring up all its cards in their proper positions.
    ;; rht 1/20/88: For some reason, we were telling NC.MakeNewCardWindow not to bring up the window. No more.
    ;; rht 5/30/88: Now passes Region/Position to NC.MakeNewCardWindow.
    (LET (Window)
          (if (SETQ Window (NC.FetchWindow TableTopCard))
                    (TOTOPW Window)
              then
                    (if Region/Position
                        then (SHAPEW Window (NC.DetermineDisplayRegion TableTopCard Region/Position)))
                    (RPTQ 2 (FLASHW Window))
            else (SETQ Window (NC.MakeNewCardWindow TableTopCard (OR (NC.RetrieveTitle TableTopCard)
                                                                              "Untitled")
                                        NIL NIL Region/Position))
                 (NCP.SetUpTitleBar Window (NC.RetrieveType TableTopCard))
                 (WINDOWADDPROP Window 'SHRINKFN (FUNCTION NC.GraphCardShrinkFn)))
          Window])
(NCTableTop.PutFn
  [LAMBDA (TableTopCard Stream)
                                                                          ; Edited 22-Jul-88 00:06 by Trigg
;;; Write the table top substance down to the stream. The format is number of pairs, followed by pairs of uid and region.
    ;; rht 5/13/88: Now writes down new Props field of TableTopEntry datatype.
    ;; rht 7/22/88: Now writes down notefile uid for cards in tabletopentries.
    (LET ((NoteFile (NCP.CardNoteFile TableTopCard))
            (Substance (NCP.CardSubstance TableTopCard))
            (StartLoc (GETFILEPTR Stream))
           (NumRecords 0))
           (NC.WritePtr Stream 0 3)
          [for TableTopEntry in Substance
   do (LET ((Card (fetch (TableTopEntry Card) of TableTopEntry))
                        (Region (fetch (TableTopEntry Region) of TableTopEntry))
(ShrunkenWinPos (fetch (TableTopEntry ShrunkenWinPos) of TableTopEntry))
                        (ShrunkenFlg (fetch (TableTopEntry ShrunkenFlg) of TableTopEntry))
                        Card)
                       (if (AND (NCP.ValidCardP Card)
                                (REGIONP Region)
(OR (NULL ShrunkenFlg)
                                     (POSITIONP ShrunkenWinPos)))
                           then (NC.WriteUID Stream (fetch (Card UID) of Card))
                                 (NC.WriteUID Stream (fetch (NoteFile UID) of (NCP.CardNoteFile Card)))
                                 (NC.WritePtr Stream (fetch LEFT of Region)
                                         2)
                                 (NC.WritePtr Stream (fetch BOTTOM of Region)
                                         2)
                                 (NC.WritePtr Stream (fetch WIDTH of Region)
                                         2)
                                 (NC.WritePtr Stream (fetch HEIGHT of Region)
                                         21
                                 (NC.WritePtr Stream (if ShrunkenFlg
                                                            then (fetch XCOORD of ShrunkenWinPos)
                                                          else 0)
                                         2)
                                 (NC.WritePtr Stream (if ShrunkenFlg
                                                            then (fetch YCOORD of ShrunkenWinPos)
                                                          else 0)
                                         2)
                                 (NC.WritePtr Stream (if ShrunkenFlg
                                                            then 1
                                                          else 0)
                                         1)
                                 (NC.WritePropList Stream (fetch (TableTopEntry Props) of TableTopEntry))
                                 (add NumRecords 1]
          (SETFILEPTR Stream StartLoc)
          (NC.WritePtr Stream NumRecords 3)
                                                                          ; Leave file ptr at eof.
                                                                          ; Return 3 to indicate this is version 3 substance format.
          (SETFILEPTR Stream -1)
          31)
```

```
(NCTableTop.GetFn
                                                                        ; Edited 22-Jul-88 00:07 by Trigg
  [LAMBDA (TableTopCard Length Stream VersionNum)
;;; Read in the TableTop card/region pairs. Expect a length field first.
    :; rht 5/13/88: Now we're up to version 2 tabletop entry datatype which includes a new Props field.
    :: rht 7/22/88: Version 3: Adds notefile uids.
    (LET ((NoteFile (NCP.CardNoteFile TableTopCard))
           (NumEntries (NC.ReadPtr Stream 3)))
          (SELECTQ VersionNum
                                                                        ; Original style table top format.
               (0
                  [for i from 1 to NumEntries
                     collect (LET ((UID (NC.ReadUID Stream))
                                    (Region (NC.ReadRegion Stream))
                                   Card)
                                  (if (AND (type? UID UID)
                                           (NCP.ValidCardP (SETQ Card (NC.CardFromUID UID NoteFile)))
                                           (REGIONP Region))
                                      then (create TableTopEntry
                                                   Card _ Card
                                                   Region _ Region
                                                   ShrunkenWinPos
                                                                      NIL
                                                   ShrunkenFlg _ NIL])
                                                                        ; This substance format added shrunken window info.
                  [for i from 1 to NumEntries
                     collect (LET ((UID (NC.ReadUID Stream))
                                    (Region (NC.ReadRegion Stream))
                                    (ShrunkenWinPos (CREATEPOSITION (NC.ReadPtr Stream 2)
                                                             (NC.ReadPtr Stream 2)))
                                    (ShrunkenIndicator (NC.ReadPtr Stream 1))
                                   Card)
                                  (if (AND
                                           (type? UID UID)
                                           [NC.CardP (SETQ Card (NC.CardOrCardHolderFromUID UID (fetch (NoteFile
                                                                                                              IIID)
                                                                                                          of NoteFile]
                                           (REGIONP Region)
(POSITIONP ShrunkenWinPos))
                                      then (create TableTopEntry
                                                   Card _ Card
                                                   Region _ Region
                                                                     _ ShrunkenWinPos
                                                   ShrunkenWinPos _
                                                   ShrunkenFlg _ (EQ ShrunkenIndicator 1])
                                                                        ; This substance format adds Props field.
                  [for i from 1 to NumEntries
                     collect (LET ((UID (NC.ReadUID Stream))
                                    (Region (NC.ReadRegion Stream))
                                    (ShrunkenWinPos (CREATEPOSITION (NC.ReadPtr Stream 2)
                                                             (NC.ReadPtr Stream 2)))
                                    (ShrunkenIndicator (NC.ReadPtr Stream 1))
                                    (Props (NC.ReadPropList Stream))
                                   Card)
                                                                        ; Skip over stupid CR
                                   (BIN Stream)
                                  (if (AND (type? UID UID)
                                           [NC.CardP (SETQ Card (NC.CardOrCardHolderFromUID UID (fetch (NoteFile
                                                                                                              UID)
                                                                                                          of NoteFile]
                                           (REGIONP Region)
                                           (POSITIONP ShrunkenWinPos))
                                      then (create TableTopEntry
                                                   Card _ Card
Region _ Region
                                                   ShrunkenWinPos _ ShrunkenWinPos
                                                   ShrunkenFlg _ (EQ ShrunkenIndicator 1)
                                                   Props _ Props])
                                                                        : This substance format adds notefile uid.
               (3
                  [for i from 1 to NumEntries
                     collect (LET ((UID (NC.ReadUID Stream))
                                    (NoteFileUID (NC.ReadUID Stream))
                                    (Region (NC.ReadRegion Stream))
                                    (ShrunkenWinPos (CREATEPOSITION (NC.ReadPtr Stream 2)
                                                             (NC.ReadPtr Stream 2)))
                                    (ShrunkenIndicator (NC.ReadPtr Stream 1))
                                    (Props (NC.ReadPropList Stream))
                                                                        ; Skip over stupid CR
                                   Card)
                                   (BIN Stream)
                                  (if (AND (type? UID UID)
                                           (NC.CardP (SETQ Card (NC.CardOrCardHolderFromUID UID NoteFileUID)))
                                           (REGIONP Region)
                                           (POSITIONP ShrunkenWinPos))
                                      then (create TableTopEntry
                                                   Card _ Card
Region _ Region
                                                   ShrunkenWinPos _ ShrunkenWinPos
                                                   ShrunkenFlg _ (EQ ShrunkenIndicator 1)
```

Props _ Props])

```
{MEDLEY}<notecards>library>NCTABLETOPCARD.;1 (NCTableTop.GetFn cont.)
                                                                                                              Page 14
              (NCP.ReportError "NCTableTop.GetFn" (CONCAT "Improper substance version num: " VersionNum])
(DEFINEQ
(NCTableTop.ReplaceUIDsFn
                                                                   ; Edited 21-Jul-88 22:53 by Trigg
  [LAMBDA (TableTopCard HashArray)
    ;; Called under NC.CopyCards, this translates TableTopEntry's Cards according to HashArray.
    (for TableTopEntry in (NCP.CardSubstance TableTopCard) do (replace (TableTopEntry Card) of TableTopEntry
                                                                  with (GETHASH (fetch (TableTopEntry Card)
                                                                                   of TableTopEntry)
                                                                              HashArray])
)
(DEFINEO
(NCTableTop.AddTableTopCard
                                                                   ; Edited 29-Mar-89 08:34 by pmi
  [LAMBDA NIL
;;; Define the table top card type.
    ;; rht 1/23/88: No longer allows InsertLink to appear on left button menu.
    :: rht 2/4/88: Added
    ;; pmi 3/29/89: Replaced list of middle button menu items with NCTableTop.MiddleButtonMenuItems
    (DECLARE (GLOBALVARS NCTableTop.LinkIconBitmap NC.GlobalInsertLinkMenuItem NCTableTop.MiddleButtonMenuItems
    (NC.AddCardType 'TableTop 'NoteCard `[(MakeFn , (FUNCTION NCTableTop.MakeFn))
                                            (EditFn , (FUNCTION NCTableTop.EditFn))
                                            (GetFn , (FUNCTION NCTableTop.GetFn))
                                            (PutFn , (FUNCTION NCTableTop.PutFn))
                                            (QuitFn , (FUNCTION NILL))
                                            (DirtyPFn , (FUNCTION NILL))
                                            (MarkDirtyFn , (FUNCTION NILL]
           '((LinkAnchorModesSupported NIL)
              (DisplayedInMenuFlg T)
              (DefaultHeight 40)
              (DefaultWidth 150)
             (LinkIconAttachedBitMap ,NCTableTop.LinkIconBitmap)
             Insert% Link)
                                                  \textbf{then} \ \texttt{NC.GlobalInsertLinkMenuItem}
                                                else Item]
              (MiddleButtonMenuItems , NCTableTop.MiddleButtonMenuItems])
(RPAQQ NCTableTop.LinklconBitmap
(DECLARE%: EVAL@COMPILE
(RECORD TableTopEntry (Card Region ShrunkenWinPos ShrunkenFlg Props))
(RECORD NCTableTop.BrowserOverviewSpecs (OverviewWinWidth OverviewWinHeight WHERETOATTACHOVERVIEWWIN
                                                 OVERVIEWWINMODE))
(DECLARE%: DONTEVAL@LOAD
(NCTableTop.AddTableTopCard)
(PUTPROP 'TableTop 'ReplaceUIDsFn (FUNCTION NCTableTop.ReplaceUIDsFn))
(PUTPROP 'TableTop 'ExtraLinkIconMenuItems NCTableTop.MiddleButtonMenuItems)
(PUTPROP 'TableTop 'LinkIconMiddleButtonMenu NIL)
(DEFINEQ
(NCAddStub.TableTopCard
                                                                   ; Edited 5-Dec-87 20:02 by rht:
  [LAMBDA NIL
```

(* * Add the tabletop card type stub.)

)

(DECLARE (GLOBALVARS NCTableTop.LinkIconBitmap))

(NC.AddCardTypeStub 'TableTop 'NoteCard 'NCTABLETOP NIL '((DisplayedInMenuFlg T)

(LinkIconAttachedBitMap

,NCTableTop.LinkIconBitmap])

;; Add a CloseSavingTableTop item to the Close notefile menus.

(DECLARE%: DONTEVAL@LOAD

 $(\mbox{NCTableTop.FixNoteFileOperationsMenus})$

{MEDLEY}<notecards>library>NCTABLETOPCARD.;1 28-Jun-2024 13:57:02 --28-Jun-2024 18:35:17

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