```
;;
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(RPAQQ BACKGROUNDMENUCOMS ((INITVARS BackgroundMenuFixupMode BackgroundMenuSuperItem
                                    BackgroundMenuTopLevelItems)
                          (FNS BkgMenu.add.item BkgMenu.fixup BkgMenu.move.item BkgMenu.remove.item
                               BkgMenu.rename.item BkgMenu.reorder.items BkgMenu.subitems \BkgMenu.locate
                               \BkgMenu.locater \BkgMenu.remove.item \BkgMenu.scan.item.list
                               \BkgMenu.unremove.item)))

(RPAQ? BackgroundMenuFixupMode NIL)

(RPAQ? BackgroundMenuSuperItem NIL)

(RPAQ? BackgroundMenuTopLevelItems NIL)

(DEFINEQ

(BkgMenu.add.item
  [LAMBDA (item superitem atend)                              (* mdd "31-Jan-86 11:32")
    (if (NULL superitem)
        then (if atend
                 then (NCONC1 BackgroundMenuCommands item)
                 else (SETQ BackgroundMenuCommands (CONS item BackgroundMenuCommands)))
             (SETQ BackgroundMenu NIL)
             T
      elseif (SETQ superitem (CDDAR (\BkgMenu.locate superitem)))
        then [if (NULL (CDR superitem))
                 then (RPLACD superitem (LIST (LIST 'SUBITEMS item)))
                 else (if atend
                          then (NCONC1 (CADR superitem)
                                       item)
                          else (RPLACD (CADR superitem)
                                       (CONS item (CDADR superitem]
             (SETQ BackgroundMenu NIL)
             T])


(BkgMenu.fixup
  [LAMBDA NIL                                                 (* mdd "23-Sep-85 19:09")
    (bind stack (stacking _ (NEQ BackgroundMenuFixupMode 'bottom))
          (result _ T) for x in (BkgMenu.subitems)
       do [if (for i in BackgroundMenuTopLevelItems thereis (EQUAL (MKSTRING i)
                                                                   (MKSTRING x)))
              then (if (AND stacking (NEQ BackgroundMenuFixupMode 'top))
                       then (for i in stack do (OR (BkgMenu.move.item i BackgroundMenuSuperItem)
                                                   (SETQ result NIL)))
                           (SETQ stacking NIL))
            else (if stacking
                     then (SETQ stack (CONS x stack))
                     else (OR (BkgMenu.move.item x BackgroundMenuSuperItem T)
                              (SETQ stacking NIL]
       finally [if stacking
                   then (for i in stack do (OR (BkgMenu.move.item i BackgroundMenuSuperItem)
                                               (SETQ result NIL]
          (RETURN result])


(BkgMenu.move.item
  [LAMBDA (item superitem atend)                              (* mdd "31-Jan-86 11:32")
    (if (SETQ item (\BkgMenu.locate item))
        then (\BkgMenu.remove.item item)
             (if (BkgMenu.add.item (CAR item)
                         superitem atend)
                 then T
               else (\BkgMenu.unremove.item item)
                    NIL])


(BkgMenu.remove.item
  [LAMBDA (item)                                              (* mdd "23-Sep-85 17:13")
    (if (SETQ item (\BkgMenu.locate item))
        then (\BkgMenu.remove.item item)
             (SETQ BackgroundMenu NIL)
             T])
```

(**BkgMenu.rename.item**
```
  [LAMBDA (item new.name)                                        (* mdd "23-Sep-85 16:58")
    (if (SETQ item (\BkgMenu.locate item))
        then (RPLACA (CAR item)
                     new.name)
             (SETQ BackgroundMenu NIL)
             T])
```

(**BkgMenu.reorder.items**
```
  [LAMBDA (itemlist superitem atend)                             (* mdd "23-Sep-85 20:26")
    (NOT (for i in (if atend
                       then itemlist
                       else (REVERSE itemlist))
           do (OR (BkgMenu.move.item i superitem atend)
                  (SETQ $$VAL T])
```

(**BkgMenu.subitems**
```
  [LAMBDA (item)                                                 (* mdd "23-Sep-85 18:33")
    (if item
        then (if (SETQ item (\BkgMenu.locate item))
                 then (MAPCAR (CDR (CADDDR (CAR item)))
                              (FUNCTION CAR))
                 else 'NotAnItem)
      else (MAPCAR BackgroundMenuCommands (FUNCTION CAR])
```

(**BkgMenu.locate**
```
  [LAMBDA (item menu)                                            (* mdd "23-Sep-85 20:58")
    (if [AND (LISTP item)
             (CDR item)
             (NOT (SETQ menu (CADDDR (CAR (\BkgMenu.locate (CDR item)
                                                           menu]
        then NIL
      else (\BkgMenu.locater (MKSTRING (if (LISTP item)
                                           then (CAR item)
                                           else item))
                 (OR (CDR menu)
                     BackgroundMenuCommands)
                 menu])
```

(**BkgMenu.locater**
```
  [LAMBDA (name items preitems)                                  (* mdd "23-Sep-85 20:44")
    (bind (queue _ (CONS NIL NIL)) until (OR (SETQ $$VAL (\BkgMenu.scan.item.list name items preitems queue))
                                             (NULL (CAR queue)))
       do (SETQ preitems (CAAR queue))
          (SETQ items (CDR preitems))
          (RPLACA queue (CDAR queue))
          (if (NULL (CAR queue))
              then (RPLACD queue NIL])
```

(**BkgMenu.remove.item**
```
  [LAMBDA (item)                                                 (* mdd "23-Sep-85 17:12")
    (if (CDR item)
        then (RPLACD (CDR item)
                     (CDDDR item))
      else (SETQ BackgroundMenuCommands (CDR BackgroundMenuCommands])
```

(**BkgMenu.scan.item.list**
```
  [LAMBDA (name items preitems queue)                            (* mdd "23-Sep-85 15:39")
    (for i in old items do (if (EQUAL (MKSTRING (CAR i))
                                      name)
                               then (RETURN (CONS i preitems))
                               else (if (CDDDR i)
                                        then (TCONC queue (CADDDR i)))
                                    (SETQ preitems items])
```

(**BkgMenu.unremove.item**
```
  [LAMBDA (item)                                                 (* mdd "23-Sep-85 17:17")
    (if (CDR item)
        then (RPLACD (CDR item)
                     (CONS (CAR item)
                           (CDDR item)))
      else (SETQ BackgroundMenuCommands (CONS (CAR item)
                                              BackgroundMenuCommands])
```

)

(PUTPROPS **BACKGROUNDMENU COPYRIGHT** ("Xerox Corporation" 1985 1986 1987))

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