```
16-May-90 21:31:50 {DSK}<usr>local>lde>lispcore>sources>RESOURCE.;2
 File created:
  changes to:
               (VARS RESOURCECOMS)
previous date:
               11-Aug-87 18:19:35 {DSK}<usr>local>lde>lispcore>sources>RESOURCE.;1
 Read Table:
               INTERLISP
   Package:
               INTERLISP
      Format:
                XCCS
"Copyright (c) 1985, 1986, 1987, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ RESOURCECOMS
       [(MACROS INITRESOURCE NEWRESOURCE GETRESOURCE FREERESOURCE WITH-RESOURCE WITH-RESOURCES)
         (FNS \GR.METHODEXPANDER \GR.WITHRESOURCEMAC)
         (FILEPKGCOMS RESOURCES INITRESOURCES)
         (FNS \GR.GETDEFFN \GR.PUTDEFFN \GR.DELDEFFN \GR.CONTENTS \GR.GvarInitLst)
         (FNS \GR.MAKEPRETTYCOMSL \IGR.MAKEPRETTYCOMSL) (INITVARS (GLOBAL.RESOURCES))
         (GLOBALVARS GLOBAL.RESOURCES)
         (PROP ARGNAMES INITRESOURCE NEWRESOURCE GETRESOURCE FREERESOURCE)
         (COMS (* "need only be in ABC")
(FILEPKGCOMS GLOBALRESOURCES)
               (MACROS GLOBALRESOURCE GLOBALRESOURCES)
               (MACROS RELEASERESOURCE))
         (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS (ADDVARS (NLAMA \IGR.MAKEPRETTYCOMSL
                                                                                              \GR.MAKEPRETTYCOMSL)
                                                                                    (NT.AMT.)
                                                                                    (LAMA])
(DECLARE%: EVAL@COMPILE
(PUTPROPS INITRESOURCE MACRO (X (\GR.METHODEXPANDER X 'INIT)))
(PUTPROPS NEWRESOURCE MACRO (X (\GR.METHODEXPANDER X 'NEW)))
(PUTPROPS GETRESOURCE MACRO (X (\GR.METHODEXPANDER X 'GET)))
(PUTPROPS FREERESOURCE MACRO (X (\GR.METHODEXPANDER X 'FREE)))
(PUTPROPS WITH-RESOURCE MACRO (= . WITH-RESOURCES))
(PUTPROPS WITH-RESOURCES MACRO (X (\GR.WITHRESOURCEMAC X)))
(DEFINEQ
(\GR.METHODEXPANDER
  [LAMBDA (X METHOD)
(PROG (DEF RVAR (NAME (OR (CAR (LISTP X))
                                                                      : Edited 27-Feb-87 15:54 by jop
                                X)))
           (RETURN (if (NULL (SETQ DEF (LISTGET (SETQ DEF (GETDEF NAME 'RESOURCES))
                                                METHOD)))
                            ;; Although these could all be implemented by functions, this is the default (and common) case; so just put in-line
                             ;; here.
                             (SETQ RVAR (PACK* '\ NAME '.GLOBALRESOURCE))
                             (SELECTQ METHOD
                                  (GET '[LET NIL (DECLARE (GLOBALVARS , RVAR))
                                              (COND
                                                 (,RVAR (PROG1 ,RVAR
                                                             (SETQ , RVAR NIL)))
                                                 (T (NEWRESOURCE , NAME])
                                  (FREE '[LET NIL (DECLARE (GLOBALVARS
                                  (SETQ ,RVAR , (CADR (LISTP X])
(INIT '(/SETTOPVAL ',RVAR NIL))
                                  (NEW (ERROR "No NEW method for resource" NAME))
                                  (SHOULDNT))
                      elseif (FNTYP DEF)
                        then (APPLY DEF X)
                      elseif (LISTP DEF)
                        then (SUBPAIR '(RESOURCENAME ARGS)
                                    (LIST NAME (CDR (LISTP X)))
                                    DEF)
                     else (ERROR (CONCAT "Bad resource " METHOD " method for " NAME)
                                  DEF1)
(\GR.WITHRESOURCEMAC
  [LAMBDA (X)
                                                                      ; Edited 11-Aug-87 18:18 by Snow
    (PROG [(NAMES (MKLIST (CAR X)))
            (FORMS (\DECL.COMNT.PROCESS (CDR X]
     ;; Forms is a list of the form (decls comments . body)
```

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:: This should probably expand into UNWIND-PROTECT instead of PROG1. Cf AR 8944
          (RETURN '([,'LAMBDA , NAMES
                       ,@(CAR FORMS)
                       ,@(CADR FORMS)
                       (PROG1 (PROGN ,@(CDDR FORMS))
                            ,@[for NAME in NAMES collect `(FREERESOURCE , NAME , NAME])]
                     ,@(for Name in Names collect `(GETRESOURCE , NAME])
[PUTDEF 'RESOURCES 'FILEPKGCOMS '((COM MACRO [X (DECLARE%: EVAL@COMPILE (P * (\GR.MAKEPRETTYCOMSL . X]
                                          CONTENTS \GR.CONTENTS)
                                    (TYPE DESCRIPTION "global resources" GETDEF \GR.GETDEFFN DELDEF \GR.DELDEFFN
                                           PUTDEF \GR.PUTDEFFN]
[PUTDEF 'INITRESOURCES 'FILEPKGCOMS '((COM MACRO (X (P * (\IGR.MAKEPRETTYCOMSL . X)))
                                              CONTENTS \GR.CONTENTS]
(DEFINEO
(\GR.GETDEFFN
                                                                     (* rmk%: "14-Jun-84 22:39")
  [LAMBDA (NAME TYPE)
    (CDR (ASSOC NAME GLOBAL.RESOURCES])
(\GR.PUTDEFFN
                                                                     ; Edited 4-Aug-87 12:25 by amd
  [LAMBDA (NAME TYPE DEF)
    (if (OR (NULL NAME)
           (NOT (LITATOM NAME)))
        then (ERRORX (LIST 14 NAME)))
    (if [AND (LISTP DEF)
             (NOT (LISTGET DEF 'NEW]
            :: Conversion from old format -- to be flushed soon after CAROL release. Jonl 5/14/84
             (SETQ DEF (LIST 'NEW DEF))
      elseif [AND DEF (NOT (LISTGET (LISTP DEF)
                                  'NEW]
        then (ERROR "No NEW method for resource" NAME))
                                                                     ; Note that the variable GLOBAL.RESOURCES has been
                                                                     ; GLOBALVAR'd by the file COMS
    [if (NULL DEF)
        then (\GR.DELDEFFN NAME TYPE)
      else (PROG NIL
                 (MARKASCHANGED NAME 'RESOURCES (if (SETQ TYPE (ASSOC NAME GLOBAL.RESOURCES))
                                                                     ; The initialization has to be performed regardless of whether or
                                                       then
                                                                      not the definition has changed.
                                                            (EVAL (\GR.METHODEXPANDER NAME 'INIT))
                                                            (AND (EQUAL DEF (CDR TYPE))
                                                                  (RETURN))
                                                            (/RPLACD TYPE DEF)
                                                            'CHANGED
                                                     else (/SETTOPVAL 'GLOBAL.RESOURCES (CONS (CONS NAME DEF)
                                                                                                 GLOBAL RESOURCES))
                                                          (EVAL (\GR.METHODEXPANDER NAME 'INIT))
                                                          'DEFINED1
   NAME1)
(\GR.DELDEFFN
                                                                     (* rmk%: "15-Jun-84 11:23")
  [LAMBDA (NAME TYPE)
    (if (NOT (AND NAME (LITATOM NAME)))
        then (ERRORX (LIST 14 NAME)))
    (PROG ((DEF (ASSOC NAME GLOBAL.RESOURCES)))
          (if DEF
              then (MARKASCHANGED NAME 'RESOURCES 'DELETED)
                    (/SETTOPVAL 'GLOBAL.RESOURCES (REMOVE DEF GLOBAL.RESOURCES))
                    (if (NULL (LISTGET (CDR DEF)
                                     'GET))
                                                                     (* Help clean up mess left by the default case)
                            (/SETTOPVAL (PACK* '\ NAME '.GLOBALRESOURCE)
                                    'NOBIND))
                    (RETURN T])
(\GR.CONTENTS
  [LAMBDA (COM NAME TYPE)
                                                                     (* rmk%: "14-Jun-84 22:29")
       ((EQ TYPE 'RESOURCES)
        [SETO COM (COND
                      ((EQ (CAR (LISTP (CDR COM)))
                       (EVAL (CADDR COM)))
                      (T (CDR COM1
        (COND
           ((EQ NAME T)
             (AND COM T))
           ((AND NAME (LITATOM NAME))
```

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{MEDLEY} < sources > RESOURCE.; 1 (\GR.CONTENTS cont.)
             (AND [find X in COM suchthat (EQ NAME (COND
                                                     ((LISTP X)
                                                      (CAR X))
                                                     (T X]
            (T (MAPCAR COM (FUNCTION (LAMBDA (X)
                                           ((LISTP X)
                                            (CAR X))
                                           (T X])
(\GR.GvarInitLst
  [LAMBDA (NAME)
                                                                    ; Edited 4-Aug-87 12:28 by amd
     (/SETTOPVAL ', (MKATOM (CONCAT "\RESOURCE." NAME ".LST"))
            (LIST NIL])
(DEFINEO
(\GR.MAKEPRETTYCOMSL
                                                                    ; Edited 4-Aug-87 12:29 by amd
  [NLAMBDA L
    [COND
       ((EQ (CAR (LISTP L))
        (SETQ L (EVAL (CADR L]
    (for Y NAME DEF in L collect [COND
                                   [(LISTP Y)
                                    (SETQ NAME (CAR Y))
                                    (SETQ DEF (CAR (LISTP (CDR Y)
                                   (T (SETQ NAME Y)
                                      (SETQ DEF (GETDEF NAME 'RESOURCES]
                               (OR (AND NAME (LITATOM NAME))
                               (ERROR "Bad filepkg command" L))
'(PUTDEF ',NAME 'RESOURCES ',DEF])
(\IGR.MAKEPRETTYCOMSL
  [NLAMBDA L
                                                                    (* JonL "24-Oct-84 18:49")
    [if (EQ (CAR (LISTP L))
        then (SETQ L
                     (EVAL (CADR L]
    (for NAME in L collect (LISPFORM.SIMPLIFY (LIST 'INITRESOURCE NAME)
                                T])
)
(RPAO? GLOBAL.RESOURCES )
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(GLOBALVARS GLOBAL RESOURCES)
(PUTPROPS INITRESOURCE ARGNAMES (NIL ("<RESOURCENAME>" . ARGS)))
(PUTPROPS NEWRESOURCE ARGNAMES (NIL ("<RESOURCENAME>" . ARGS)))
(PUTPROPS GETRESOURCE ARGNAMES (NIL ("<RESOURCENAME>" . ARGS)))
(PUTPROPS FREERESOURCE ARGNAMES (NIL ("<RESOURCENAME>" DATUM . ARGS)))
;; need only be in ABC
[PUTDEF 'GLOBALRESOURCES 'FILEPKGCOMS '((COM MACRO (X (DECLARE%: DONTCOPY (RESOURCES . X))
                                                         (INITRESOURCES . X]
(DECLARE%: EVAL@COMPILE
(PUTPROPS GLOBALRESOURCE MACRO (= . WITH-RESOURCES))
(PUTPROPS GLOBALRESOURCES MACRO (= . WITH-RESOURCES))
(DECLARE%: EVAL@COMPILE
(PUTPROPS RELEASERESOURCE MACRO [ARGS ([LAMBDA (RVALVAR)
                                               (OR (AND (LITATOM RVALVAR)
                                                        RVALVAR
                                                        (NEQ T RVALVAR))
                                                   (ERROR "Must RELEASERESOURCE from a variable" ARGS]
                                             (CADR ARGS))
                                            (SUBPAIR '(RNAME RVALVAR . FORMS)
                                                   ARGS
```

'(PROGN (FREERESOURCE RNAME RVALVAR)
(PROG1 (PROGN . FORMS)

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{MEDLEY} < sources>RESOURCE.; 1 (RELEASERESOURCE cont.)

(SETQ RVALVAR (GETRESOURCE RNAME)))])
)
(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS
(ADDTOVAR NLAMA \IGR.MAKEPRETTYCOMSL \GR.MAKEPRETTYCOMSL)
(ADDTOVAR NLAML )
(ADDTOVAR LAMA )
)
(PUTPROPS RESOURCE COPYRIGHT ("Venue & Xerox Corporation" 1985 1986 1987 1990))
```

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{MEDLEY}<sources>RESOURCE.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:16:14 --

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