```
(IL:RPAQQ IL:DEFFER-RUNTIMECOMS
          ((IL:INITVARS (IL:FILEPKGFLG NIL))
```
;; The definer data structures and manipulation functions
;; Must be shared with IL for compatibility with old definers
```
           (IL:VARIABLES *DEFINITION-HASH-TABLE*)
```
;; Prototype definition facility
```
           (IL:VARIABLES *DEFINITION-PROTOTYPES*)
           (IL:FUNCTIONS ADD-PROTOTYPE-FN PROTOTYPE-DEFN-TYPES PROTOTYPE-DEFINERS-FOR-TYPE MAKE-PROTOTYPE
              %MAKE-FUNCTION-PROTOTYPE)
           (IL:PROP (IL:FILETYPE IL:MAKEFILE-ENVIRONMENT)
              IL:DEFFER-RUNTIME)
           (IL:DECLARE\: IL:DONTEVAL@LOAD IL:DOEVAL@COMPILE IL:DONTCOPY IL:COMPILERVARS (IL:ADDVARS (IL:NLAMA)
                                                                                           (IL:NLAML)
                                                                                           (IL:LAMA)))))))


(IL:RPAQ? IL:FILEPKGFLG NIL)
```

;; The definer data structures and manipulation functions
;; Must be shared with IL for compatibility with old definers

```
(DEFGLOBALVAR *DEFINITION-HASH-TABLE* (MAKE-HASH-TABLE :TEST #'EQ :SIZE 20))
```

;; Prototype definition facility

```
(DEFGLOBALVAR *DEFINITION-PROTOTYPES* NIL
```
;; An association list mapping file-manager types to association lists from definer-names to prototype-functions
```
   )


(DEFUN ADD-PROTOTYPE-FN (TYPE DEFINER PROTOTYPE-FN)
   (LET ((TYPE-ALIST (ASSOC TYPE *DEFINITION-PROTOTYPES* :TEST #'EQ)))
      (IF (NULL TYPE-ALIST)
```
;; No entry for this type -- add one
```
          (SETQ *DEFINITION-PROTOTYPES* (ACONS TYPE (LIST (CONS DEFINER PROTOTYPE-FN))
                                               *DEFINITION-PROTOTYPES*))
          (LET ((DEFINER-ALIST (ASSOC DEFINER (CDR TYPE-ALIST)
                                      :TEST
                                      #'EQ)))
```
;; If this definer didn't already have a PROTOTYPE-FN, add one. If it already had one, change it to the new one.
```
             (IF (NULL DEFINER-ALIST)
                 (SETF (CDR TYPE-ALIST)
                       (ACONS DEFINER PROTOTYPE-FN (CDR TYPE-ALIST)))
                 (SETF (CDR DEFINER-ALIST)
                       PROTOTYPE-FN))))))


(DEFUN PROTOTYPE-DEFN-TYPES ()
```
;;; Return a list of the file-manager types for which some definer can provide a prototype definition.
```
   (MAPCAN #'(LAMBDA (X)
                (IF (CDR X)
                    (LIST (CAR X))))
           *DEFINITION-PROTOTYPES*))


(DEFUN PROTOTYPE-DEFINERS-FOR-TYPE (TYPE)
```
;;; Return a list of the definers that claim to be able to provide a prototype definition of the given type.
```
   (MAPCAR #'CAR (CDR (ASSOC TYPE *DEFINITION-PROTOTYPES* :TEST #'EQ))))


(DEFUN MAKE-PROTOTYPE (NAME TYPE DEFINER)
```

```
    (LET ((PROTOTYPE-FN (CDR (ASSOC DEFINER (CDR (ASSOC TYPE *DEFINITION-PROTOTYPES* :TEST #'EQ))
                                    :TEST
                                    #'EQ))))
        (AND PROTOTYPE-FN (FUNCALL PROTOTYPE-FN NAME)))))
```

(DEFUN **%MAKE-FUNCTION-PROTOTYPE** ()

   ;; dummy definition -- redefined by SEdit

```
    (LIST (LIST "Arg List")
          "Body"))
```

(IL:PUTPROPS **IL:DEFFER-RUNTIME IL:FILETYPE** COMPILE-FILE)

(IL:PUTPROPS **IL:DEFFER-RUNTIME IL:MAKEFILE-ENVIRONMENT** (:READTABLE "XCL" :PACKAGE "XCL"))

(IL:DECLARE\: IL:DONTEVAL@LOAD IL:DOEVAL@COMPILE IL:DONTCOPY IL:COMPILERVARS

(IL:ADDTOVAR **IL:NLAMA**)

(IL:ADDTOVAR **IL:NLAML**)

(IL:ADDTOVAR **IL:LAMA**)
)

(IL:PUTPROPS **IL:DEFFER-RUNTIME IL:COPYRIGHT** ("Venue & Xerox Corporation" 1987 1988 1990))

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