

File created: 16-May-90 15:30:14 {DSK}<usr>local>lde>lispcore>sources>DEFFER-RUNTIME.;2

changes to: (IL:VARS IL:DEFFER-RUNTIMECOMS)

previous date: 6-Jul-88 20:55:09 {DSK}<usr>local>lde>lispcore>sources>DEFFER-RUNTIME.;1

Read Table: XCL

Package: XEROX-COMMON-LISP

Format: XCCS

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```
(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:COMPILEVARS (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:DEFER-RUNTIME IL:FILETYPE COMPILE-FILE)
(IL:PUTPROPS IL:DEFER-RUNTIME IL:MAKEFILE-ENVIRONMENT (:READTABLE "XCL" :PACKAGE "XCL"))
(IL:DECLARE\ : IL:DONTEVAL@LOAD IL:DOEVAL@COMPILE IL:DONTCOPY IL:COMPILERVERS
(IL:ADDTOVAR IL:NLAMA )
(IL:ADDTOVAR IL:NLAML )
(IL:ADDTOVAR IL:LAMA )
)
(IL:PUTPROPS IL:DEFER-RUNTIME IL:COPYRIGHT ("Venue & Xerox Corporation" 1987 1988 1990))
```

FUNCTION INDEX

%MAKE-FUNCTION-PROTOTYPE2 MAKE-PROTOTYPE1 PROTOTYPE-DEFN-TYPES1
ADD-PROTOTYPE-FN1 PROTOTYPE-DEFINERS-FOR-TYPE1

VARIABLE INDEX

DEFINITION-HASH-TABLE1 *DEFINITION-PROTOTYPES*1 IL:FILEPKGFLG1

PROPERTY INDEX

IL:DEFER-RUNTIME2
