

File created: 22-May-91 09:10:07 {DSK}<new>sources>lispcore>sources>CMLMODULES.;2

previous date: 12-Jun-90 16:56:18 {DSK}<new>sources>lispcore>sources>CMLMODULES.;1

Read Table: XCL

Package: LISP

Format: XCCS

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```
(IL:RPAQQ IL:CMLMODULESCOMS ((IL:VARIABLES *MODULES*)
                             (IL:FUNCTIONS PROVIDE REQUIRE)
                             (IL:PROP IL:FILETYPE IL:CMLMODULES)
                             (IL:PROP IL:MAKEFILE-ENVIRONMENT IL:CMLMODULES)))
```

```
(DEFVAR *MODULES* NIL
 "A list of all modules currently provided to the system.")
```

```
(DEFUN PROVIDE (MODULE-NAME)
 "Declare that module-name is provided to the system."
 (DECLARE (SPECIAL *MODULES*))
 (IF (SYMBOLP MODULE-NAME)
     (SETQ MODULE-NAME (SYMBOL-NAME MODULE-NAME)))
 (PUSHNEW MODULE-NAME *MODULES* :TEST #'STRING=)
 MODULE-NAME)
```

```
(DEFUN REQUIRE (MODULE-NAME &OPTIONAL (PATHNAME NIL))
 "Declare that module-name is needed. If already loaded do nothing. If not, load using the pathname, which
 is a single pathname or list of pathnames. If pathname is not provided use the system default paths
 (*default-pathname-defaults* and directories)."
```

```
(DECLARE (SPECIAL *MODULES* *DEFAULT-PATHNAME-DEFAULTS* IL:DIRECTORIES IL:*COMPILED-EXTENSIONS*))
(UNLESS (MEMBER MODULE-NAME *MODULES* :TEST #'STRING=)
  (LET (PATHNAMES)
      (LABELS ((TRY (PATHNAME)
                   (OR
                    (TRY-MANY PATHNAME IL:*COMPILED-EXTENSIONS*
                                ; first look for a compiled file
                                ; then for a source file
                    (TRY-MANY PATHNAME (LIST NIL))
                    (CERROR "Don't load file ~S~*." "Can't find file ~S for required module ~S."
                           PATHNAME MODULE-NAME)))
                (TRY-MANY (PATHNAME TYPES)
                           ;; look first on connected directory, then IL:DIRECTORIES
                           (DOLIST (DIRECTORY (CONS *DEFAULT-PATHNAME-DEFAULTS* IL:DIRECTORIES))
                                (DOLIST (TYPE TYPES)
                                     (WHEN (TRY-ONE (MERGE-PATHNAMES PATHNAME (MAKE-PATHNAME :TYPE TYPE :DEFAULTS
                                                                                               DIRECTORY)))
                                         (RETURN-FROM TRY-MANY T))))))
                (TRY-ONE (PATHNAME)
                           ;; don't try any pathname more than once
                           (UNLESS (MEMBER PATHNAME PATHNAMES :TEST 'EQUAL)
                                (PUSH PATHNAME PATHNAMES)
                                (WHEN (PROBE-FILE PATHNAME)
                                     (UNLESS (FIND (IL:PACKFILENAME 'IL:DIRECTORY (FORMAT NIL "{~a}~a"
                                                                                               (PATHNAME-HOST PATHNAME)
                                                                                               (PATHNAME-DIRECTORY
                                                                                               PATHNAME))
                                                                                               'IL:BODY
                                                                                               (PATHNAME-NAME PATHNAME)
                                                                                               'IL:VERSION
                                                                                               (PATHNAME-VERSION PATHNAME))
                                             IL:LOADEDFILELST)
                                         (LOAD PATHNAME))
                                     T))))
                (DOLIST (PATHNAME (ETYPESCASE PATHNAME
                                               (NULL (LIST MODULE-NAME))
                                               ((OR SYMBOL STRING PATHNAME) (LIST PATHNAME))
                                               (LIST PATHNAME))
                        T)
                        (TRY PATHNAME))))))
```

```
(IL:PUTPROPS IL:CMLMODULES IL:FILETYPE :COMPILE-FILE)
```

```
(IL:PUTPROPS IL:CMLMODULES IL:MAKEFILE-ENVIRONMENT (:READTABLE "XCL" :PACKAGE "LISP"))
```

```
(IL:PUTPROPS IL:CMLMODULES IL:COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1988 1990 1991))
```

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**FUNCTION INDEX**

PROVIDE .....1      REQUIRE .....1

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**PROPERTY INDEX**

IL:CMLMODULES .....1

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**VARIABLE INDEX**

\*MODULES\* .....1

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