

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

; Copyright (c) 1986, 1987, 1988, 1990, 1991 by Venue & Xerox Corporation. All rights reserved.

```
(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 (ETYPECASE 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))
```

FUNCTION INDEX

PROVIDE	1	REQUIRE	1
---------------	---	---------------	---

PROPERTY INDEX

IL:CMLMODULES	1
---------------------	---

VARIABLE INDEX

MODULES	1
-----------------	---
