

File created: 16-Apr-2018 22:46:19 {DSK}<Users>kaplan>Local>medley3.5>lispcore>sources>CMLMODULES.;2

changes to: (IL:FUNCTIONS REQUIRE)

previous date: 12-Jun-90 16:56:18 {DSK}<Users>kaplan>Local>medley3.5>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))
```

```
;; Rewritten by Ron Kaplan, April 2018. Commonlisp search logic was complicated and broken
```

```
;; 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 ( and directories).
```

```
(DECLARE (SPECIAL *MODULES* *DEFAULT-PATHNAME-DEFAULTS* IL:DIRECTORIES IL:*COMPILED-EXTENSIONS*))
(UNLESS (MEMBER MODULE-NAME *MODULES* :TEST #'STRING=)
```

```
  (LET (FOUND (SEARCHPATHS (CONS (NAMESTRING *DEFAULT-PATHNAME-DEFAULTS*)
                                 IL:DIRECTORIES)))
        ; default is connected directory
        ; maybe final try should be home?
```

```
    (DOLIST (PATHNAME (ETYPECASE PATHNAME
                       (NULL (LIST MODULE-NAME))
                       ((OR SYMBOL STRING PATHNAME) (LIST PATHNAME))
                       (LIST PATHNAME))
              T)
```

```
      (SETQ PATHNAME (NAMESTRING PATHNAME))
```

```
      (OR
        (SETQ FOUND (IL:FINDFILE-WITH-EXTENSIONS PATHNAME SEARCHPATHS IL:*COMPILED-EXTENSIONS*))
        (SETQ FOUND (IL:FINDFILE PATHNAME SEARCHPATHS))
        (CERROR "Don't load file ~S~*." "Can't find file ~S for required module ~S." PATHNAME
                 MODULE-NAME))
        ; first look for a compiled file, then source
```

```
      ;; LOAD? loads only if not already loaded or FOUND is newer
```

```
      (IL:LOAD? FOUND))))))
```

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

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

```
(IL:PUTPROPS IL:CMLMODULES IL:COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1988 1990 2018))
```

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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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