

File created: 16-May-90 13:06:35 {DSK}<usr>local>lde>lispcore>sources>CMLDOC.;2

changes to: (VARS CMLDOCCOMS)

previous date: 19-Mar-87 12:29:50 {DSK}<usr>local>lde>lispcore>sources>CMLDOC.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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

```
(RPAQQ CMLDOCCOMS (
```

```
;;; Documentation strings
```

```
(VARIABLES *DOCUMENTATION-HASH-TABLE*)  
(FUNCTIONS CL:DOCUMENTATION HASH-TABLE-FOR-DOC-TYPE SET-DOCUMENTATION)  
(SETFS CL:DOCUMENTATION)  
;; Use the proper compiler  
(PROP FILETYPE CMLDOC)))
```

```
;;; Documentation strings
```

```
(DEFGLOBALVAR *DOCUMENTATION-HASH-TABLE*
```

```
;;; This is the repository for all documentation strings in the system. It is a two-level hash-table scheme, just like *definition-hash-table*. At the first level,  
;;; *DOCUMENTATION-HASH-TABLE* maps the symbols that name documentation-types into a separate hash table for each type. Those tables map  
;;; names into the documentation strings for those names. The first-level table uses an EQ test while the second-level ones use CL:EQUAL.
```

```
;; The hash-table is initialized to have second-level tables for each of the required documentation types.
```

```
(LET ((CL:HT (CL:MAKE-HASH-TABLE :TEST 'EQ :SIZE 10 :REHASH-SIZE 5)))  
  [FOR TYPE-LIST IN '((TYPES TYPE)  
                      (SETFS CL:SETF)  
                      (STRUCTURES CL:STRUCTURE RECORD RECORDS)  
                      (FUNCTIONS CL:FUNCTION FN FNS)  
                      (VARIABLES CL:VARIABLE VAR VARS))]  
  DO (LET ((TABLE (CL:MAKE-HASH-TABLE :TEST 'CL:EQUAL :SIZE 50 :REHASH-SIZE 50)))  
      (FOR TYPE IN TYPE-LIST DO (CL:SETF (CL:GETHASH TYPE CL:HT)  
                                          TABLE)  
      CL:HT))
```

```
(CL:DEFUN CL:DOCUMENTATION (NAME DOC-TYPE)  
  (GETHASH NAME (HASH-TABLE-FOR-DOC-TYPE DOC-TYPE)))
```

```
(CL:DEFUN HASH-TABLE-FOR-DOC-TYPE (DOC-TYPE)  
  (OR (GETHASH DOC-TYPE *DOCUMENTATION-HASH-TABLE*)  
      (AND FILEPKGFLG (GETHASH (SETQ DOC-TYPE (GETFILEPKGTYPE DOC-TYPE 'TYPE))  
                               ;; note that GETFILEPKGTYPE will signal an error if it doesn't recognize the type.  
                               *DOCUMENTATION-HASH-TABLE*))  
      (CL:SETF (GETHASH DOC-TYPE *DOCUMENTATION-HASH-TABLE*)  
                (CL:MAKE-HASH-TABLE :TEST 'CL:EQUAL :SIZE 50 :REHASH-SIZE 50))))
```

```
(CL:DEFUN SET-DOCUMENTATION (NAME DOC-TYPE NEW-STRING)  
  (CL:IF LISPXHIST  
    (UNDOABLY-SETF (GETHASH NAME (HASH-TABLE-FOR-DOC-TYPE DOC-TYPE))  
                  NEW-STRING)  
    (CL:SETF (GETHASH NAME (HASH-TABLE-FOR-DOC-TYPE DOC-TYPE))  
              NEW-STRING))
```

```
(CL:DEFSETF CL:DOCUMENTATION SET-DOCUMENTATION)
```

```
;; Use the proper compiler
```

```
(PUTPROPS CMLDOC FILETYPE CL:COMPILE-FILE)
```

```
(PUTPROPS CMLDOC COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1990))
```

FUNCTION INDEX

CL:DOCUMENTATION1 HASH-TABLE-FOR-DOC-TYPE1 SET-DOCUMENTATION1

PROPERTY INDEX

CMLDOC1

SETF INDEX

CL:DOCUMENTATION1

VARIABLE INDEX

DOCUMENTATION-HASH-TABLE1
