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File created: 18-Oct-93 10:41:09 {Pele:mv:envos}<LispCore>Sources>CLTL2>CMLDOC.;2

previous date: 14-Apr-92 20:18:56 {Pele:mv:envos}<LispCore>Sources>CLTL2>CMLDOC.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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;;
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(RPAQQ CMLDOCCOMS (

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;;; Documentation strings

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    (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.

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

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```

(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))

```

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

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(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) ; Edited 14-Apr-92 20:16 by jrb:
  (CL:CHECK-TYPE NEW-STRING (OR (EQL NIL)
    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

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```

(PUTPROPS CMLDOC FILETYPE CL:COMPILE-FILE)

```

```

(PUTPROPS CMLDOC COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1990 1991 1992 1993))

```

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