

File created: 24-Mar-88 18:01:18 {ERIS}<CUTTING>OSS>LYRIC>OSS-LYRIC-PATCHES.;1

changes to: (VARS OSS-LYRIC-PATCHESCOMS)

previous date: 24-Mar-88 16:56:45 {ERIS}<CUTTING>OSS>LYRIC>LYRIC-DO-PATCH.;1

Read Table: XCL

Package: INTERLISP

Format: XCCS

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```
(RPAQQ OSS-LYRIC-PATCHESCOMS ( ;; Patches for some Lyric Common LISP bugs fixed in Medley.
                               (FNS ;; from CMLSPECIALFORMS
                               \DO.TRANSLATE)
                               (FUNCTIONS
                               ;; from CMLLIST
                               CL::%MAPCAR-MULTIPLE CL::%FILL-SLICE-FROM-LISTS)))
```

;; Patches for some Lyric Common LISP bugs fixed in Medley.

(DEFINEQ

(\DO.TRANSLATE

(LAMBDA (VARS END-TEST BODY SEQUENTIALP ENV) ; Edited 24-Mar-88 16:40 by drc:

```
(LET ((VARS-AND-INITIAL-VALUES (MAPCAR VARS (FUNCTION (LAMBDA (X)
                                                       (COND
                                                         ((NLISTP X)
                                                          (LIST X NIL))
                                                         (T (LIST (CAR X)
                                                                (CADR X)))))))
      (SUBSEQUENT-VALUES (MAPCAR VARS (FUNCTION (LAMBDA (X)
                                                       (AND (LISTP X)
                                                           (CDDR X)
                                                           (LIST (CAR X)
                                                                (CADDR X)))))))
      (TAG (GENSYM)))
```

```
(AND (SETQ SUBSEQUENT-VALUES (REMOVE NIL SUBSEQUENT-VALUES))
      (SETQ SUBSEQUENT-VALUES (CONS (COND
                                     (SEQUENTIALP 'CL:SETQ)
                                     (T 'CL:PSETQ))
                                     (APPLY (FUNCTION APPEND)
                                             SUBSEQUENT-VALUES))))
```

```
(CL:MULTIPLE-VALUE-BIND (BODY DECLS)
  (PARSE-BODY BODY ENV)
  `(, (COND
      ((SEQUENTIALP 'PROG*)
       (T 'PROG))
      ,VARS-AND-INITIAL-VALUES
      ,@DECLS
      ,TAG
      (COND
       (, (CAR END-TEST)
          (RETURN (PROGN ,@(CDR END-TEST))))
       ,@BODY
       ,SUBSEQUENT-VALUES
       (GO ,TAG))))))
```

```
)
```

```
(CL:DEFUN CL::%MAPCAR-MULTIPLE (CL::FN CL::LISTS)
  (LET ((CL::ARG-SLICE (CL:MAKE-LIST (LENGTH CL::LISTS))))
    (CL:DO ((CL::RESULT NIL)
            (CL::RESULT-TAIL NIL)
            (CL::CURRENT-SLICE CL::ARG-SLICE)
            CL::ELEMENT)
            ((NULL CL::CURRENT-SLICE)
             CL::RESULT)
            (CL:SETQ CL::CURRENT-SLICE (CL::%FILL-SLICE-FROM-LISTS CL::LISTS CL::ARG-SLICE (CAR CL::ARG-TAIL)))
            (COND
             (CL::CURRENT-SLICE ; There is really more work to do.
              (CL:SETQ CL::ELEMENT (CL:APPLY CL::FN CL::CURRENT-SLICE))
              (CL::%LIST-COLLECT CL::RESULT CL::RESULT-TAIL (LIST CL::ELEMENT)))))))
```

```
(DEFMACRO CL::%FILL-SLICE-FROM-LISTS (CL::LISTS CL::ARG-SLICE CL::ARG-TAIL-FORM)
  `(CL:DO ((CL::SUBSLICE ,CL::ARG-SLICE (CDR CL::SUBSLICE))
          (CL::SUBLIST ,CL::LISTS (CDR CL::SUBLIST))
          (CL::SOME-LIST-EMPTY NIL)
          LIST)
    ((NULL CL::SUBLIST)
```

```
(COND
  (CL::SOME-LIST-EMPTY
   NIL) ; Ran out of entries in a list.
  (T
   ,CL::ARG-SLICE)) ; still work to do; return it.
(CL:SETQ LIST (CAR CL::SUBLIST))
(CL:SETQ CL::SOME-LIST-EMPTY (OR CL::SOME-LIST-EMPTY (NULL LIST)))
(RPLACA CL::SUBSLICE (PROG1 , (CL:SUBST 'LIST 'CL::ARG-TAIL CL::ARG-TAIL-FORM)
  (RPLACA CL::SUBLIST (CDR LIST))))))

(PUTPROPS OSS-LYRIC-PATCHES COPYRIGHT ("Xerox Corporation" 1988))
```

**FUNCTION INDEX**

CL::%MAPCAR-MULTIPLE .....1    \\DO.TRANSLATE .....1

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**MACRO INDEX**

CL::%FILL-SLICE-FROM-LISTS .....1

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