

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 ; Ran out of entries in a list.
    NIL)
  (T ; still work to do; return it.
    ,CL::ARG-SLICE)))
(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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