```
(RPAQQ CMLDESTRUCTCOMS ((FUNCTIONS DESTRUCTURING-BIND DESTRUCTURING-SETQ EXPAND-DESTRUCTURING-BIND)
                        ;; Arrange for the correct compiler to be used.

                        (PROP FILETYPE CMLDESTRUCT)))


(DEFMACRO DESTRUCTURING-BIND (PATTERN FORM &BODY BODY &ENVIRONMENT ENV)
    (EXPAND-DESTRUCTURING-BIND PATTERN FORM BODY ENV))


(DEFMACRO DESTRUCTURING-SETQ (VARS VALUE)
    [IF (NULL VARS)
        THEN VALUE
      ELSEIF (NLISTP VARS)
        THEN `(SETQ ,VARS ,VALUE)
      ELSEIF (NULL (CDR VARS))
        THEN `(DESTRUCTURING-SETQ ,(CAR VARS)
                      (CAR ,VALUE))
      ELSEIF (LISTP VALUE)
        THEN [LET ((DV (GENSYM)))
                   `(LET ((,DV ,VALUE))
                        (DESTRUCTURING-SETQ ,(CAR VARS)
                              (CAR ,DV))
                        (DESTRUCTURING-SETQ ,(CDR VARS)
                              (CDR ,DV]
      ELSE `(PROGN (DESTRUCTURING-SETQ ,(CAR VARS)
                        (CAR ,VALUE))
                   (DESTRUCTURING-SETQ ,(CDR VARS)
                        (CDR ,VALUE])


(CL:DEFUN EXPAND-DESTRUCTURING-BIND (PATTERN FORM BODY ENVIRONMENT)
```

;;; A compiled function so that circularity of MULTIPLE-VALUE-BIND isn't caught. DO NOT try to run with this function interpreted!

```
    [LET ((WHOLE-VAR (GENSYM)))
        (CL:MULTIPLE-VALUE-BIND (CODE DECLARATIONS)
            (PARSE-DEFMACRO PATTERN WHOLE-VAR BODY 'DESTRUCTURING-BIND ENVIRONMENT :PATH WHOLE-VAR
                   :DOC-STRING-ALLOWED NIL)
          (CL:ASSERT (EQ (CAR CODE)
                         'LET*)
                NIL "BUG: PARSE-DEFMACRO didn't return a LET* form.")
          `(,'LET* ((,WHOLE-VAR ,FORM)
                    ,@(CADR CODE))
                ,@DECLARATIONS
                ,@(CDDR CODE)))])
```

;; Arrange for the correct compiler to be used.

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

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