```
6-Nov-91 14:39:39 {DSK}<usr>local>lde>lispcore>sources>ATBL.;6
 File created:
               (FNS \ORIGREADTABLE GETSYNTAX SETSYNTAX SYNTAXP \COPYSYNTAX \GETCHARCODE \SETFATSYNCODE CONTROL
  changes to:
                    COPYTERMTABLE DELETECONTROL GETDELETECONTROL ECHOCONTROL ECHOMODE GETECHOMODE
                    GETCONTROL GETTERMTABLE RAISE GETRAISE RESETTERMTABLE SETTERMTABLE TERMTABLEP \GETTERMSYNTAX
                    GTTERMTABLE \ORIGTERMTABLE \SETTERMSYNTAX \TERMCLASSTOCODE \TERMCODETOCLASS \LITCHECK
                    COPYREADTABLE FIND-READTABLE IN-READTABLE ESCAPE GETBRK GETREADTABLE GETSEPR READMACROS
                    READTABLEP READTABLEPROP RESETREADTABLE SETBRK SETREADTABLE SETSEPR \GETREADSYNTAX
                    \GTREADTABLE \GTREADTABLE1 \READCLASSTOCODE \SETMACROSYNTAX \SETREADSYNTAX \READTABLEP.DEFPRINT \ATBLSET MAKE-READER-ENVIRONMENT EQUAL-READER-ENVIRONMENT
                    SET-READER-ENVIRONMENT)
               (RECORDS READTABLEP)
previous date:
                4-Apr-91 22:36:35 {DSK}<usr>local>lde>lispcore>sources>ATBL.;2
 Read Table:
               INTERLISP
    Package:
               INTERLISP
       Format:
                XCCS
;; Copyright (c) 1982, 1983, 1984, 1985, 1986, 1987, 1990, 1991 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ ATBLCOMS
        [(E (RESETSAVE (RADIX 8)))
         (COMS
                                                                      ; Common features of read and terminal tables
               (DECLARE%: DONTCOPY (EXPORT (MACROS \SYNCODE \SETSYNCODE)
                                             (RECORDS CHARTABLE))
                       (CONSTANTS \NSCHARHASHKEYS \NSCHARHASHOVERFLOW)
                       (MACROS \CREATENSCHARHASH \MAPCHARTABLE))
               (FNS GETSYNTAX SETSYNTAX SYNTAXP \COPYSYNTAX \GETCHARCODE \SETFATSYNCODE))
         (COMS
                                                                      ; terminal tables
               (FNS CONTROL COPYTERMTABLE DELETECONTROL GETDELETECONTROL ECHOCHAR ECHOCONTROL ECHOMODE
                    GETECHOMODE GETCONTROL GETTERMTABLE RAISE GETRAISE RESETTERMTABLE SETTERMTABLE TERMTABLEP
                     GETTERMSYNTAX GTTERMTABLE ORIGTERMTABLE SETTERMSYNTAX TERMCLASSTOCODE TERMCODETOCLASS
               (DECLARE%: DONTCOPY (EXPORT (CONSTANTS * CCECHOMODES) (CONSTANTS * TERMCLASSES)
                                             (RECORDS TERMCODE TERMTABLEP)))
               (INITRECORDS TERMTABLEP))
         (COMS
                                                                      ; read tables
               (FNS COPYREADTABLE FIND-READTABLE IN-READTABLE ESCAPE GETBRK GETREADTABLE GETSEPR READMACROS
                    READTABLEP READTABLEPROP RESETREADTABLE SETBRK SETREADTABLE SETSEPR \GETREADSYNTAX
                     \GTREADTABLE \GTREADTABLE1 \ORIGREADTABLE \READCLASSTOCODE \SETMACROSYNTAX \SETREADSYNTAX
                     \READTABLEP.DEFPRINT)
               (PROP ARGNAMES READTABLEPROP)
                                                                       READCLASSTOKENS Generates READCLASSES and some
               (DECLARE%: EVAL@COMPILE DONTCOPY
                                                                       interesting SELECTQ's
                                                                       OTHER must be zero because of initialization.
                       [VARS READCLASSTOKENS (READCLASSES (MAPCAR READCLASSTOKENS (FUNCTION
                                                                                         (LAMBDA
                                                                                          (PAIR)
                                                                                          (LIST (PACK* (CAR PAIR)
".RC")
                                                                                                (CADR PAIR)
                       (MACROS \COMPUTED.FORM)
                                                                      ; This macro ought to be official somehow
                       (RECORDS CONTEXTS ESCAPES WAKEUPS)
                       (EXPORT (MACROS \GETREADMACRODEF \GTREADTABLE \GTREADTABLE1)
                               (CONSTANTS MACROBIT BREAKBIT STOPATOMBIT ESCAPEBIT INNERESCAPEBIT)
                              (CONSTANTS * READCODEMASKS)
(CONSTANTS * READMACROCONTEXTS)
                               (CONSTANTS * READCLASSES)
                               (CONSTANTS * READMACROWAKEUPS)
                               (CONSTANTS * READMACROESCAPES)
                               (RECORDS READCODE READMACRODEF READTABLEP))
                       (GLOBALVARS \ORIGREADTABLE \READTABLEHASH \ORIGTERMTABLE))
               (INITRECORDS READTABLEP))
               (FNS \ATBLSET)
         [COMS
               (INITRECORDS READER-ENVIRONMENT)
                                                                      ; Definition is on CMLREAD, need it here to initialize
                                                                        *OLD-INTERLISP-READ-ÉNVIRONMENT
               (FNS MAKE-READER-ENVIRONMENT EQUAL-READER-ENVIRONMENT SET-READER-ENVIRONMENT)
               (INITVARS (*LISP-PACKAGE*)
                       (*INTERLISP-PACKAGE*)
                       (*KEYWORD-PACKAGE*))
               (DECLARE%: DONTEVAL@LOAD DOCOPY (P (\ATBLSET]
         (LOCALVARS
                      T)
         (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS (ADDVARS (NLAMA)
                                                                                    (NLAML)
                                                                                    (LAMA READTABLEPROP])
```

(DECLARE%: DONTCOPY

{MEDLEY}<CLTL2>ATBL.;1 Page 2

```
:: FOLLOWING DEFINITIONS EXPORTED
(DECLARE%: EVAL@COMPILE
(PUTPROPS \SYNCODE DMACRO [OPENLAMBDA (TABLE CHAR)
                                      ; 0 is either NONE.TC, REAL.CCE, or OTHER.RC
                  (CHECK (type? CHARTABLE TABLE))
                  (COND
                    ((IGREATERP CHAR \MAXTHINCHAR)
                     (OR (AND (fetch (CHARTABLE NSCHARHASH) of TABLE)
                          (GETHASH CHAR (fetch (CHARTABLE NSCHARHASH) of TABLE)))
                       0))
                    (T (\GETBASEBYTE TABLE CHAR])
(PUTPROPS \SETSYNCODE DMACRO [LAMBDA (TABLE CHAR CODE) (CHECK (type? CHARTABLE TABLE)); 0 is REAL.CCE, NONE.TC, OTHER.RC
                    (COND
                      ((ILEQ CHAR \MAXTHINCHAR)
(\PUTBASEBYTE TABLE CHAR CODE))
                      (T (\SETFATSYNCODE TABLE CHAR CODE])
(DECLARE%: EVAL@COMPILE
(DATATYPE CHARTABLE ((CHARSETO 256 BYTE)
            (NSCHARHASH FULLPOINTER)))
(/DECLAREDATATYPE 'CHARTABLE
    BYTE
        BYTE BYTE
                                                               BYTE
        BYTE
        BYTE
        BYTE
        BYTE BYTE BYTE BYTE BYTE BYTE BYTE FULLPOINTER)
    ;; ---field descriptor list elided by lister---
    130)
:: END EXPORTED DEFINITIONS
(DECLARE%: EVAL@COMPILE
(RPAOO \NSCHARHASHKEYS 10)
(RPAQO \NSCHARHASHOVERFLOW 1.3)
(CONSTANTS \NSCHARHASHKEYS \NSCHARHASHOVERFLOW)
(DECLARE%: EVAL@COMPILE
(PUTPROPS \CREATENSCHARHASH MACRO (ARGS
                                       ; added size argument for creation of \ORIGTERMTABLE during
                                       ; initialization.
                          (LIST 'HASHARRAY (OR (CAR ARGS)
                                       '\NSCHARHASHKEYS)
                              '\NSCHARHASHOVERFLOW)))
(PUTPROPS \MAPCHARTABLE MACRO [LAMBDA (FN CHARTBL)
                     (for I from 0 to \maxthinchar do (apply* fn (\getbasebyte chartbl I)
                       ((fetch (CHARTABLE NSCHARHASH) of CHARTBL)
                       (MAPHASH (fetch (CHARTABLE NSCHARHASH) of CHARTBL)
                           FN])
(DEFINEQ
GETSYNTAX
                                       (* bvm%: " 8-Mar-86 17:22")
 [LAMBDA (CH TABLE)
  (COND
    [(FIXP (SETQ CH (\GETCHARCODE CH)))
    (COND
      ((type? TERMTABLEP TABLE)
(\GETTERMSYNTAX CH TABLE))
      (T (\GETREADSYNTAX CH (\GTREADTABLE TABLE T)
```

```
(T (PROG (TEM CHARTBL RESULT)
                     (COND
                        ((SETQ TEM (\READCLASSTOCODE CH))
(SETQ CHARTBL (fetch READSA of (\GTREADTABLE TABLE T)))
                          (\MAPCHARTABLE [FUNCTION (LAMBDA (VAL KEY)
                                                             (DECLARE (USEDFREE TEM RESULT))
                                                             (COND
                                                                 ((EQ TEM VAL)
                                                                  (push RESULT KEY]
                                   CHARTBL))
                        ((EQ CH 'BREAK)
                          (SETQ CHARTBL (fetch READSA of (\GTREADTABLE TABLE T)))
                          (\MAPCHARTABLE [FUNCTION (LAMBDA (VAL KEY)
(DECLARE (USEDFREE TEM RESULT))
                                                             (COND
                                                                 ((fetch BREAK of VAL)
                                                                  (push RESULT KEY]
                                  CHARTBL))
                         ((SETQ TEM (\TERMCLASSTOCODE CH))
                          (SETO CHARTBL (fetch TERMSA of (GTTERMTABLE TABLE T)))
(\MAPCHARTABLE [FUNCTION (LAMBDA (VAL KEY)
                                                             (DECLARE (USEDFREE TEM RESULT))
                                                             (COND
                                                                 ((EQ TEM (fetch TERMCLASS of VAL))
                                                                  (push RESULT (PROG1 KEY (* SELECTC TEM ((LIST NONE.TC WORDSEPR.TC)
                                                                                       "Only these classes have multiple members") KEY)
                                                                                    (RETUŔN (CONS KEY)))
                                                                                        ) ]
                                  CHARTBL))
                        [(FMEMB CH '(MACRO SPLICE INFIX))
(PROG [LST (A (fetch READMACRODEFS of (\GTREADTABLE TABLE T]
                                  (COND
                                     (A [MAPHASH A (FUNCTION (LAMBDA (DEF C)
                                                                        (AND (EQ CH (fetch MACROTYPE of DEF))
                                                                              (push LST C]
                                          (RETURN LST]
                        ((SETQ TEM (fetch (CONTEXTS VAL) of CH))
(SETQ CHARTBL (fetch READSA of (\GTREADTABLE TABLE T)))
                          (\MAPCHARTABLE [FUNCTION (LAMBDA (VAL KEY)
                                                             (DECLARE (USEDFREE TEM RESULT))
                                                                 ((EQ TEM (fetch MACROCONTEXT of VAL))
                                                                  (push RESULT KEY]
                                  CHARTBL))
                        ((SETQ TEM (fetch (WAKEUPS VAL) of CH))
(SETQ CHARTBL (fetch READSA of (\GTREADTABLE TABLE T)))
(\MAPCHARTABLE [FUNCTION (LAMBDA (VAL KEY)
                                                             (DECLARE (USEDFREE TEM RESULT))
                                                             (COND
                                                                 ((EQ TEM (fetch WAKEUP of VAL))
                                                                  (push RESULT KEY]
                        CHARTBL))
((SETQ TEM (fetch (ESCAPES VAL) of CH))
(SETQ CHARTBL (fetch READSA of (\GTREADTABLE TABLE T)))
(\MAPCHARTABLE [FUNCTION (LAMBDA (VAL KEY)
                                                             (DECLARE (USEDFREE TEM RESULT))
                                                             (COND
                                                                 ((EQ TEM (fetch ESCAPE of VAL))
                                                                   (push RESULT KEY]
                                  CHARTBL))
                         (T (\ILLEGAL.ARG CH)))
                    (RETURN RESULT])
(SETSYNTAX
  [LAMBDA (CHAR CLASS TBL)
                                                                                    (* rmk%: "20-Nov-84 15:47")
     (OR (FIXP (SETQ CHAR (\GETCHARCODE CHAR)))
          (\ILLEGAL.ARG CHAR))
    [OR (type? READTABLEP TBL) (type? TERMTABLEP TBL)
          (SETQ TBL (COND
                                 (type? termtablep class) (\termclasstocode class))
                           ((OR
                            (\GTTERMTABLE TBL))
                           (T (\GTREADTABLE TBL]
     [COND
         ((OR (type? READTABLEP CLASS)
(type? TERMTABLEP CLASS)
                (SELECTO CLASS
                     ((NIL T ORIG)
                          T)
                    NIL))
         (SETQ CLASS (GETSYNTAX CHAR CLASS)))
((FIXP (SETQ CLASS (\GETCHARCODE CLASS)))
          (SETQ CLASS (GETSYNTAX CLASS TBL]
     (COND
```

```
{MEDLEY} < CLTL2 > ATBL.; 1 (SETSYNTAX cont.)
                                                                                                                             Page 4
        ((type? READTABLEP
                 (\GETREADSYNTAX CHAR TBL)
         (PROG1
                  (\SETREADSYNTAX CHAR CLASS TBL)))
        (T (PROG1 (\GETTERMSYNTAX CHAR TBL)
                    (\SETTERMSYNTAX CHAR CLASS TBL])
(SYNTAXP
  [LAMBDA (CODE CLASS TABLE)
                                                                           (* rmk%: " 5-JUN-80 22:40")
     (PROG
           (D)
            (RETURN (COND
                         ((EQ CLASS 'BREAK)
                          (fetch break of (\SYNCODE (fetch readsa of (\GTREADTABLE TABLE))
                         ((SETQ D (\READCLASSTOCODE CLASS))
                          (EQ D (\SYNCODE (fetch READSA of (\GTREADTABLE TABLE))
                        [(SETQ D (\TERMCLASSTOCODE CLASS))
(EQ D (fetch TERMCLASS of (\SYNCODE (fetch TERMSA of (\GTTERMTABLE TABLE))
                                                               CODE 1
                        [(FMEMB CLASS '(MACRO SPLICE INFIX))

(AND (SETQ D (fetch READMACRODEFS of (\GTREADTABLE TABLE)))

(EQ CLASS (fetch MACROTYPE of (GETHASH CODE D)

[(SETQ D (fetch (CONTEXTS VAL) of CLASS))
                          (EQ D (fetch macrocontext of (\syncode (fetch readsa of (\GTREADTABLE table))
                                                                  CODE]
                         [(SETQ D (fetch (WAKEUPS VAL) of CLASS))
                          (EQ D (fetch WAKEUP of (\SYNCODE (fetch READSA of (\GTREADTABLE TABLE))
                                                           CODE 1
                         [(SETQ D (fetch (ESCAPES VAL) of CLASS))
                          (EQ D (fetch ESCAPE of (\SYNCODE (fetch READSA of (\GTREADTABLE TABLE))
                                                           CODE]
                         (T (\ILLEGAL.ARG CLASS])
(\COPYSYNTAX
                                                                            (* gbn "15-Sep-85 22:36")
  [LAMBDA (A B)
    ;; Copies chartable A into chartable B
    (CHECK (AND (type? CHARTABLE A) (type? CHARTABLE B)))
     (\MOVEBYTES A 0 B 0 (ADD1 \MAXTHINCHAR))
     (COND
        ((fetch (CHARTABLE NSCHARHASH) of A)
         (replace (CHARTABLE NSCHARHASH) of B with (REHASH (fetch (CHARTABLE NSCHARHASH) of A)
                                                                (\CREATENSCHARHASH])
(\GETCHARCODE
  [LAMBDA (C)
                                                                            (* rmk%: "20-Nov-84 15:46")
    (COND
        ((AND (NUMBERP C)
               (\CHARCODEP (FIX C)))
         (FIX C))
        ((AND (LITATOM C)
               (EQ 1 (NCHARS C)))
         (CHCON1 C))
        (T C])
(\SETFATSYNCODE
  [LAMBDA (TABLE CHAR CODE)
                                                                            (* bvm%: " 8-Mar-86 17:03")
;;; Called by \SETSYNCODE macro for fat characters
                                                                            ; CODE = 0 is REAL.CCE, NONE.TC, OTHER.RC
     (SETQ TABLE (\DTEST TABLE 'CHARTABLE))
        ((ILEQ CHAR \MAXTHINCHAR)
         (\PUTBASEBYTE TABLE CHAR CODE))
        ((EQ 0 CODE)
             ((fetch (CHARTABLE NSCHARHASH) of TABLE)
                                                                            ; there was already a table here so record the change
              (PUTHASH CHAR CODE (fetch (CHARTABLE NSCHARHASH) of TABLE)))
                                                                            ; No hashtable yet, and only the default is being stored, so don't
                                                                            ; build the hashtable
                0)))
        (T (PUTHASH CHAR CODE (OR (fetch (CHARTABLE NSCHARHASH) of TABLE)
                                       (replace (CHARTABLE NSCHARHASH) of TABLE with (\CREATENSCHARHASH])
;; terminal tables
```

(CONTROL [LAMBDA (MODE TTBL)

(DEFINEQ

(ECHOCONTROL

[LAMBDA (CHAR MODE TTBL)
(PROG ((C (\GETCHARCODE CHAR)))

(* rmk%: "20-Nov-84 15:14")

(SIMULATE SIMULATE.CCE)
((INDICATE UPARROW)
 INDICATE.CCE)
(\ILLEGAL.ARG MODE])])

```
{MEDLEY} < CLTL2 > ATBL.; 1 (ECHOCONTROL cont.)
             (OR [AND (\THINCHARCODEP C)
                          (OR (ILESSP C 32)
                               (AND (IGEQ C (CHARCODE A))
                                      (ILEQ C (CHARCODE Z))
                                      (SETQ C (IDIFFERENCE C 64]
                   (\ILLEGAL.ARG C))
              (RETURN (ECHOCHAR C MODE TTBL])
(ECHOMODE
                                                                                         (* rmk%: " 8-FEB-80 11:57")
  [LAMBDA (FLG TTBL)
     (PROG1 (fetch ECHOFLG of (SETQ TTBL (\GTTERMTABLE TTBL)))
           (replace ECHOFLG of TTBL with (AND FLG T)))])
GETECHOMODE
  [LAMBDA (TTBL) (fetch ECHOFLG of (\GTTERMTABLE TTBL T])
                                                                                         (* lmm " 1-Jan-85 21:21")
(GETCONTROL
  [LAMBDA (TTBL) (fetch controlflg of (\GTTERMTABLE TTBL T])
                                                                                        (* lmm " 1-Jan-85 21:21")
(GETTERMTABLE
  [LAMBDA (TTBL)
     (\GTTERMTABLE TTBL NIL])
(RAISE
  [LAMBDA (FLG TTBL)
                                                                                         (* bvm%: "14-Feb-85 00:17")
     (PROG1 (fetch RAISEFLG of (SETQ TTBL (\GTTERMTABLE TTBL)))
           (replace RAISEFLG of TTBL with (COND
                                                      ((EQ FLG 0)
                                                       (FLG T))))])
(GETRAISE
                                                                                         (* lmm " 1-Jan-85 21:21")
  [LAMBDA (TTBL)
     (fetch RAISEFLG of (\GTTERMTABLE TTBL T])
(RESETTERMTABLE
  [LAMBDA (TTBL FROM)
                                                                                         (* lmm "14-APR-81 14:34")
     (PROG ((FR (\GTTERMTABLE FROM T))
(TT (\GTTERMTABLE TTBL)))
              (\COPYSYNTAX (fetch TERMSA of FR)
             (COPYSYNIAX (tetch TERMSA of FR)

(fetch TERMSA of TT))

(replace RAISEFLG of TT with (fetch RAISEFLG of FR))

(replace DELCHARECHO of TT with (fetch DELCHARECHO of FR))

(replace LINEDELETE of TT with (fetch LINEDELETE of FR))

(replace 1STCHDEL of TT with (fetch 1STCHDEL of FR))

(replace NTHCHDEL of TT with (fetch NTHCHDEL of FR))

(replace POSTCHDEL of TT with (fetch POSTCHDEL of FR))
             (replace EMPTYCHDEL of TT with (fetch EMPTYCHDEL of FR))
(replace CONTROLFLG of TT with (fetch CONTROLFLG of FR))
(replace ECHOFLG of TT with (fetch ECHOFLG of FR))
              (RETURN TT])
(SETTERMTABLE
  [LAMBDA (TBL)
                                                                                        (* rmk%: " 8-FEB-80 12:16")
     (PROG1 \PRIMTERMTABLE
           [SETQ \PRIMTERMSA (fetch TERMSA of (SETQ \PRIMTERMTABLE (\GTTERMTABLE TBL])])
(TERMTABLEP
  [LAMBDA (TTBL)
                                                                                         (* rmk%: "20-FEB-80 12:29")
     (AND (type? TERMTABLEP TTBL)
(\GETTERMSYNTAX
                                                                                        (* rmk%: "24-APR-80 09:44")
     (\TERMCODETOCLASS (fetch TERMCLASS of (\SYNCODE (fetch TERMSA of TBL)
                                                                    C])
(\GTTERMTABLE
  [LAMBDA (TTBL FLG)
                                                                                         (* lmm " 6-MAY-80 20:35")
     (COND
         ((type? TERMTABLEP TTBL)
```

TTBL)
((NULL TTBL)
\PRIMTERMTABLE)

Page 6

```
{MEDLEY}<CLTL2>ATBL.;1 (\GTTERMTABLE cont.)
                                                                                                                        Page 7
       ((AND (EQ TTBL 'ORIG)
              FLG)
        \ORIGTERMTABLE)
       (T (LISPERROR "ILLEGAL TERMINAL TABLE" TTBL])
(\ORIGTERMTABLE
                                                                        (* rrb " 5-Oct-85 10:33")
  [LAMBDA NIL
    ;; Creates the original terminal table
    ;; must be created with a hash table big enough to hold all of the indicates in character set 1 because this gets evaluated in the loadup before
    ;; HASHOVERFLOW is defined. rrb 5-oct-85
    (PROG ((TBL (create TERMTABLEP
                         TERMSA _ (create CHARTABLE
                                           NSCHARHASH _ (\CREATENSCHARHASH 300))
                         DELCHARECHO
                                         'ECHO
                         ECHOFLG _
                         LINEDELETE _ "##
                         1STCHDEL _
                         NTHCHDEL _ ""
POSTCHDEL _ "\"
                         EMPTYCHDEL _ "##
           (PROGN (\SETTERMSYNTAX (SELECTQ (SYSTEMTYPE)
                                           ((TENEX D)
                                                (CHARCODE ^A))
                                           ((JERICHO VAX TOPS-20)
                                                 (CHARCODE DEL))
                                           (SHOULDNT))
                          'CHARDELETE TBL)
                   (\SETTERMSYNTAX (CHARCODE ^H)
                                                                        ; Added ^H as a CHARDELETE character 9/30/85
                           CHARDELETE TBL)
                   (\SETTERMSYNTAX (CHARCODE ^W)
                           WORDDELETE TBL)
                   (\SETTERMSYNTAX (SELECTQ (SYSTEMTYPE)
                                           ((TENEX D)
                                                 (CHARCODE ^Q))
                                           ((JERICHO VAX)
                                                 (CHARCODE ^U))
                                           (SHOULDNT))
                           'LINEDELETE TBL)
                   (\SETTERMSYNTAX (CHARCODE ^R)
                   'RETYPE TBL)
(\SETTERMSYNTAX (CHARCODE ^V)
                   'CTRLV TBL)
(\SETTERMSYNTAX (CHARCODE EOL)
                           'WAKEUPCHAR TBL)
                   (for C
                     in (CHARCODE (SPACE TAB ! @ %# $ ~ & * - = + % | { } ^ _ %: ; < > %, %. ? /))
do (\SETTERMSYNTAX C 'WORDSEPR TBL)))
           (PROGN (ECHOCHAR (CHARCODE (NULL ^A ^B ^C ^D ^E ^F ^H ^K ^L ^N ^O ^P ^Q ^R ^S ^T ^U ^V ^W ^X ^Y ^Z
                                                  ^\ ^%] ^^))
                          'INDICATE TBL)
                   (ECHOCHAR (CHARCODE (BELL TAB LF CR))
                          'REAL TBL)
                   (SELECTQ
                             (SYSTEMTYPE)
                        (D (ECHOCHAR (CHARCODE (NULL ^A ^W ^Q ^R))
                                   'IGNORE TBL)
                           (ECHOCHAR (CHARCODE (BELL TAB ESCAPE LF TENEXEOL))
                        'SIMULATE TBL))
(JERICHO (ECHOCHAR [CONSTANT (CONS ERASECHARCODE (CHARCODE (BELL TAB ESCAPE EOL]
                        'SIMULATE TBL))
(VAX (ECHOCHAR (CHARCODE (TAB ESCAPE EOL DEL))
                                     'SIMULATE TBL))
                       NIL))
           (for C from 128 to \MAXTHINCHAR do (ECHOCHAR C 'REAL TBL))
           (for c from (CHARCODE 1,0) to (CHARCODE 1,377) do (ECHOCHAR c 'INDICATE TBL))
           (RETURN TRL1)
(\SETTERMSYNTAX
                                                                        (* rmk%: "26-Mar-85 23:45")
  [LAMBDA (C CLASS TBL)
    ;; Changes the terminal syntax class for charcode C. Unlike Interlisp-10, does not turn off previous characters for CHARDELETE, etc. classes
    (\SETSYNCODE (fetch TERMSA of TBL)
            (create TERMCODE using (\SYNCODE (fetch TERMSA of TBL)
                                    TERMCLASS _ (OR (\TERMCLASSTOCODE CLASS)
                                                      (LISPERROR "ILLEGAL ARG" CLASS])
(\TERMCLASSTOCODE
  [LAMBDA (CLASS)
                                                                        (* rmk%: "11-FEB-82 21:24")
    (SELECTQ CLASS
         ((EOL WAKEUPCHAR)
```

```
{MEDLEY} < CLTL2 > ATBL.; 1 (\TERMCLASSTOCODE cont.)
                                                                                                                   Page 8
              EOL.TC)
         (NONE NONE.TC)
         (CHARDELETE CHARDELETE.TC)
         (WORDDELETE WORDDELETE.TC)
         (WORDSEPR WORDSEPR.TC)
         (LINEDELETE LINEDELETE.TC)
         (RETYPE RETYPE.TC)
         ((CTRLV CNTRLV)
             CTRLV.TC)
         NIL])
(\TERMCODETOCLASS
                                                                      (* rmk%: "11-FEB-82 21:24")
  [LAMBDA (CODE)
    (SELECTC CODE
         (EOL.TC 'EOL)
(NONE.TC 'NONE)
         (CHARDELETE.TC
              'CHARDELETE)
         (WORDDELETE.TC
              'WORDDELETE)
         (WORDSEPR.TC 'WORDSEPR)
         (LINEDELETE.TC
         'LINEDELETE)
(RETYPE.TC 'RETYPE)
(CTRLV.TC 'CNTRLV)
        NIL])
(\LITCHECK
  [LAMBDA (X)
                                                                      (* rmk%: "11-FEB-82 21:26")
    (COND
                                                                     ; Means take terminal/implementation dependent backup action
       ((EQ X 'BACKUP)
       ((LITATOM X)
        (MKSTRING X))
       ((STRINGP X)
        (CONCAT X))
       (T (\ILLEGAL.ARG X])
(DECLARE%: DONTCOPY
;; FOLLOWING DEFINITIONS EXPORTED
(RPAQQ CCECHOMODES (REAL.CCE IGNORE.CCE SIMULATE.CCE INDICATE.CCE))
(DECLARE%: EVAL@COMPILE
(RPAQQ REAL.CCE 0)
(RPAQQ IGNORE.CCE 8)
(RPAQQ SIMULATE.CCE 16)
(RPAQQ INDICATE.CCE 24)
(CONSTANTS REAL.CCE IGNORE.CCE SIMULATE.CCE INDICATE.CCE)
(RPAGO TERMCLASSES (NONE.TC EOL.TC CHARDELETE.TC WORDDELETE.TC WORDSEPR.TC LINEDELETE.TC RETYPE.TC CTRLV.TC))
(DECLARE%: EVAL@COMPILE
(RPAQQ NONE.TC 0)
(RPAQQ EOL.TC 1)
(RPAQQ CHARDELETE.TC 2)
(RPAQQ WORDDELETE.TC 6)
(RPAQQ WORDSEPR.TC 7)
(RPAQQ LINEDELETE.TC 3)
(RPAQQ RETYPE.TC 4)
(RPAQQ CTRLV.TC 5)
(CONSTANTS NONE.TC EOL.TC CHARDELETE.TC WORDDELETE.TC WORDSEPR.TC LINEDELETE.TC RETYPE.TC CTRLV.TC)
(DECLARE%: EVAL@COMPILE
(ACCESSFNS TERMCODE ((CCECHO (LOGAND DATUM 24))
```

```
{MEDLEY} < CLTL2 > ATBL.; 1 (TERMCODE cont.)
                                                                                                                     Page 9
                       (TERMCLASS (LOGAND DATUM 7)))
                                                                      ; We assume that values are appropriately shifted
        (CREATE (LOGOR CCECHO TERMCLASS)))
(DATATYPE TERMTABLEP (TERMSA RAISEFLG DELCHARECHO LINEDELETE 1STCHDEL NTHCHDEL POSTCHDEL EMPTYCHDEL (CONTROLFLG
                               (ECHOFLG FLAG))
       TERMSA _ (create CHARTABLE))
(/DECLAREDATATYPE 'TERMTABLEP '(POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER FLAG FLAG)
       ;; ---field descriptor list elided by lister---
       116)
:: END EXPORTED DEFINITIONS
(/DECLAREDATATYPE 'TERMTABLEP' (POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER FLAG FLAG)
       ;; ---field descriptor list elided by lister---
       ′16)
;; read tables
(DEFINEO
(COPYREADTABLE
  [LAMBDA
                                                                       (* rmk%: " 2-FEB-80 12:26")
    (RESETREADTABLE (create READTABLEP)
            (\GTREADTABLE RDTBL T])
(FIND-READTABLE
  [LAMBDA (NAME)
                                                                       (* bvm%: "27-Jul-86 15:53")
    (GETHASH NAME \READTABLEHASH])
(IN-READTABLE
  [LAMBDA (RDTBL) (SETQ *READTABLE* (\GTREADTABLE RDTBL T])
                                                                       (* bvm%: "27-Jul-86 15:55")
(ESCAPE
                                                                       (* rmk%: " 1-FEB-80 13:12")
  [LAMBDA (FLG RDTBL)
    (PROG1 (fetch ESCAPEFLG of (SETO RDTBL (\GTREADTABLE RDTBL)))
         (replace ESCAPEFLG of RDTBL with (NEQ FLG NIL)))])
(GETBRK
  [LAMBDA (RDTBL)
                                                                       (* rmk%: " 2-MAY-80 17:04")
    (GETSYNTAX 'BREAK RDTBL])
(GETREADTABLE
                                                                       (* Imm%: 4-FEB-76 3 50)
  [LAMBDA
    (\GTREADTABLE RDTBL])
(GETSEPR
  [LAMBDA (RDTBL)
(GETSYNTAX 'SEPR RDTBL])
                                                                       (* rmk%: " 2-MAY-80 17:05")
(READMACROS
                                                                       (* rmk%: " 1-FEB-80 13:11")
  [LAMBDA (FLG RDTBL)
    (PROG1 (fetch READMACROFLG of (SETQ RDTBL (\GTREADTABLE RDTBL)))
         (replace READMACROFLG of RDTBL with (NEQ FLG NIL)))])
(READTABLEP
  [LAMBDA (RDTBL)
                                                                       (* rmk%: "20-FEB-80 12:32")
    (AND (type? READTABLEP RDTBL)
         RDTBL])
(READTABLEPROP
  [LAMBDA ARGS
                                                                      ; Edited 3-Apr-91 20:57 by jrb:
    (COND
```

((LESSP ARGS 2)
 (\ILLEGAL.ARG NIL))

((GREATERP ARGS 3) (\ILLEGAL.ARG (ARG ARGS 4)))

(T (LET [(RDTBL (\GTREADTABLE (ARG ARGS 1))) (NEWVALUEP (EQ ARGS 3)) (NEWVALUE (AND (EQ ARGS 3)

(ARG ARGS 31

```
(SELECTQ (ARG ARGS 2)
                           (NUMBERBASE (PROG1 (fetch (READTABLEP NUMBERBASE) of RDTBL)
                                                (COND
                          (NEWVALUEP (replace (READTABLEP NUMBERBASE) of RDTBL with NEWVALUE)))))
(NAME [LET ((OLDNAME (fetch (READTABLEP READTBLNAME) of RDTBL)))
                                          (PROG1 OLDNAME
                                               (COND
                                                   (NEWVALUEP (COND
                                                                      (OLDNAME (REMHASH OLDNAME \READTABLEHASH)))
                                                             (replace (READTABLEP READTBLNAME) of RDTBL with NEWVALUE)
                                                              PUTHASH NEWVALUE RDTBL \READTABLEHASH))))])
                          (COMMONLISP (PROG1 (fetch (READTABLEP COMMONLISP) of RDTBL)
                                                [COND
                                                     (NEWVALUEP (replace (READTABLEP COMMONLISP) of RDTBL with NEWVALUE)
                                                              (if NEWVALUE
                                                                   then
                                                                                         COMMONLISP implies COMMONNUMSYNTAX and not
                                                                                         USESILPACKAGE
                                                                          (replace (READTABLEP COMMONNUMSYNTAX) of RDTBL
                                                                              with T
                                                                          (replace (READTABLEP USESILPACKAGE) of RDTBL with NIL]))
                          (COMMONNUMSYNTAX
                                 (PROG1 (fetch (READTABLEP COMMONNUMSYNTAX) of RDTBL)
                                      (COND
                                          (NEWVALUEP (replace (READTABLEP COMMONNUMSYNTAX) of RDTBL with NEWVALUE)))))
                          (USESILPACKAGE
                                 (PROG1 (fetch (READTABLEP USESILPACKAGE) of RDTBL)
                                      (COND
                                          (NEWVALUEP (replace (READTABLEP USESILPACKAGE) of RDTBL with NEWVALUE)))))
                          (CASEINSENSITIVE
                                 (PROG1 (fetch (READTABLEP CASEINSENSITIVE) of RDTBL)
                                      (COND
                                          (NEWVALUEP (replace (READTABLEP CASEINSENSITIVE) of RDTBL with NEWVALUE)))))
                           (LOWER/FLIPCASE
                                 (PROG1 (fetch (READTABLEP LOWER/FLIPCASE) of RDTBL)
                                      (COND
                                          (NEWVALUEP (replace (READTABLEP LOWER/FLIPCASE) of RDTBL with NEWVALUE)))))
                           (ESCAPECHAR (PROG1 (fetch (READTABLEP ESCAPECHAR) of RDTBL)
                                                (COND
                                                     (NEWVALUEP (\SETREADSYNTAX NEWVALUE 'ESCAPE RDTBL)
                                                              (replace (READTABLEP ESCAPECHAR) of RDTBL with NEWVALUE)))))
                          (MULTIPLE-ESCAPECHAR
                                 (PROG1 (fetch (READTABLEP MULTESCAPECHAR) of RDTBL)
                                      (COND
                                          (NEWVALUEP (\SETREADSYNTAX NEWVALUE 'MULTIPLE-ESCAPE RDTBL)
                                                    (replace (READTABLEP MULTESCAPECHAR) of RDTBL with NEWVALUE)))))
                          (PACKAGECHAR (PROG1 (fetch (READTABLEP PACKAGECHAR) of RDTBL)
                                                  (COND
                                                      (NEWVALUEP (\SETREADSYNTAX NEWVALUE 'PACKAGEDELIM RDTBL)
                                                                (replace (READTABLEP PACKAGECHAR) of RDTBL with NEWVALUE)))))
                          (HASHMACROCHAR
                                (PROG1 (fetch (READTABLEP HASHMACROCHAR) of RDTBL)
                                      (COND
                                          (NEWVALUEP (\SETREADSYNTAX NEWVALUE '(INFIX ALWAYS NONIMMEDIATE ESCQUOTE
                                                                                                        READVBAR)
                                                    (replace (READTABLEP HASHMACROCHAR) of RDTBL with NEWVALUE)))))
                          (\ILLEGAL.ARG (ARG ARGS 21)
(RESETREADTABLE
  [LAMBDA (RDTBL FROM)
                                                                                         ; Edited 3-Apr-91 21:00 by jrb:
     [replace readmacrofig of (setq rdtbl (\GTREADTABLE rdtbl)) with (fetch readmacrofig of (setq from
                                                                                                                           (\GTREADTABLE FROM T]
     (replace ESCAPEFLG of RDTBL with (fetch ESCAPEFLG of FROM))
(replace (READTABLEP COMMONLISP) of RDTBL with (fetch (READTABLEP COMMONLISP) of FROM))
(replace (READTABLEP NUMBERBASE) of RDTBL with (fetch (READTABLEP NUMBERBASE) of FROM))
     (replace (READTABLEP NUMBERBASE) of RDTBL with (fetch (READTABLEP NUMBERBASE) of FROM))
(replace (READTABLEP CASEINSENSITIVE) of RDTBL with (fetch (READTABLEP CASEINSENSITIVE) of FROM))
(replace (READTABLEP COMMONNUMSYNTAX) of RDTBL with (fetch (READTABLEP COMMONNUMSYNTAX) of FROM))
(replace (READTABLEP USESILPACKAGE) of RDTBL with (fetch (READTABLEP COMMONNUMSYNTAX) of FROM))
(replace (READTABLEP USESILPACKAGE) of RDTBL with (fetch (READTABLEP USESILPACKAGE) of FROM))
(replace (READTABLEP ESCAPECHAR) of RDTBL with (fetch (READTABLEP HASHMACROCHAR) of FROM))
(replace (READTABLEP ESCAPECHAR) of RDTBL with (fetch (READTABLEP MULTESCAPECHAR) of FROM))
(replace (READTABLEP DACKAGECHAR) of RDTBL with (fetch (READTABLEP MULTESCAPECHAR) of FROM))
(replace (READTABLEP DISPATCHMACRODEFS) of RDTBL with (COPY (fetch (READTABLEP DISPATCHMACRODEFS))
                                                                                          of FROM)))
     ;; Placeholder. If DISPATCHMACRODEFS ends up containing a CHARTABLE or a hash table, will have to do a REHASH or \COPYSYNTAX as
     ;; well
     [LET ((RDEFS (fetch (READTABLEP READMACRODEFS) of RDTBL))
             (FDEFS (fetch (READTABLEP READMACRODEFS) of FROM))
             N)
            (COND
                (RDEFS (CLRHASH RDEFS)))
            (AND FDEFS (REHASH FDEFS (OR RDEFS (replace (READTABLEP READMACRODEFS) of RDTBL
                                                                with (HASHARRAY (HARRAYSIZE FDEFS)
                                                                                71
```

```
{MEDLEY} < CLTL2 > ATBL.; 1 (RESETREADTABLE cont.)
                                                                                                                              Page 11
    (\COPYSYNTAX (fetch READSA of FROM)
             (fetch READSA of RDTBL))
    RDTBL1)
(SETBRK
  [LAMBDA (LST FLG RDTBL)
                                                                             (* rmk%: "13-AUG-81 00:01")
                                                                             ; This is a very ugly def which needs to be cleaned up cause a ; lot of people call SETBRK
    (COND
        [(EQ LST T)
         [MAPC (GETSYNTAX 'BREAK RDTBL)
                (FUNCTION (LAMBDA (X)
                               (SETSYNTAX X 'OTHER RDTBL]
         (MAPC (GETSYNTAX 'BREAK (COND
                                           ((EQ RDTBL T)
'ORIG)
                                           (T T)))
                (FUNCTION (LAMBDA
                                     (X)
                               (SETSYNTAX X 'BREAK RDTBL1
        (T (SELECTQ FLG
                 (NIL
                                                                             : reset
                       [MAPC (GETSYNTAX 'BREAK RDTBL)
                              (FUNCTION (LAMBDA (X)
                                             (OR (MEMB X LST)
                                                  (SETSYNTAX X 'OTHER RDTBL]
                       [MAPC LST (FUNCTION (LAMBDA (X)
                                                  (SETSYNTAX x 'BREAK RDTBL])
                 (0
                                                                             ; clear out lst
                    [MAPC LST (FUNCTION (LAMBDA (X)
                                               (SETSYNTAX X 'OTHER RDTBL])
                                                                             ; add chars
                 (1
                    [MAPC LST (FUNCTION (LAMBDA (X)
                                               (SETSYNTAX X 'BREAK RDTBL])
                NIL])
(SETREADTABLE
  [LAMBDA (RDTBL FLG)
                                                                             (* bvm%: " 4-May-86 16:32")
    (PROG1 *READTABLE*
         (SETQ *READTABLE* (\GTREADTABLE RDTBL)))])
(SETSEPR
  [LAMBDA (LST FLG RDTBL)
                                                                             (* rmk%: " 8-JUN-80 07:16")
                                                                             . This one also needs to be cleaned up
    (COND
        [(EQ LST T)
         [MAPC (GETSYNTAX 'SEPR RDTBL)
                (FUNCTION (LAMBDA
                                     (X)
                               (SETSYNTAX X 'OTHER RDTBL]
         (MAPC (GETSYNTAX 'SEPR (COND
                                          ((EQ RDTBL T)
'ORIG)
                                          (T T)))
                (FUNCTION (LAMBDA
                                     (X)
                               (SETSYNTAX X 'SEPR RDTBL]
        (T (SELECTQ FLG
                 (NIL
                                                                             : reset
                       [MAPC (GETSYNTAX 'SEPR RDTBL)
                              (FUNCTION (LAMBDA
                                             (SETSYNTAX X 'OTHER RDTBL]
                       [MAPC LST (FUNCTION (LAMBDA (X) (SETSYNTAX X 'SEPR RDTBL])
                 (0
                                                                             ; clear out lst
                     [MAPC LST (FUNCTION (LAMBDA (X)
                                               (SETSYNTAX X 'OTHER RDTBL])
                                                                             ; add chars
                    [MAPC LST (FUNCTION (LAMBDA (X)
                                               (SETSYNTAX X 'SEPR RDTBL])
                NIL1)
(\GETREADSYNTAX
                                                                             (* bvm%: "30-Jun-86 17:49")
  [LAMBDA (C TBL)
    (LET ((B (\SYNCODE (fetch READSA of TBL)
                       C)))
          ;; This will turn into a SELECTQ that keys off syntax code numbers and produces class tokens. The default clause at the end: if it's not a
          ;; built-in class, must be a macro
          ;; Sample code:
                                                                             (* (SELECTQ B (0 (QUOTE OTHER))
(96 (QUOTE SEPRCHAR)) (112
(QUOTE BREAKCHAR)) (113 (QUOTE STRINGDELIM))
(114 (QUOTE LEFTPAREN)) (115
(QUOTE RIGHTPAREN)) (116 (QUOTE LEFTBRACKET))
                                                                             (117 (QUOTE RIGHTBRÁCKET))
                                                                             (70 (QUOTE ESCAPE)) (71 (QUOTE MULTIPLE-ESCAPE))
```

```
(69 (QUOTE PACKAGEDELIM)) <default>))
           (\COMPUTED.FORM '(SELECTO B
                                     (\sqrt{.0} [for Pair in readclasstokens collect (List (EVAL (CADR PAIR))
                                                                                           (KWOTE (CAR PAIR])
                                     (LET ((E (\GETREADMACRODEF C TBL))
                                            KEY)
                                           `(, (fetch MACROTYPE of E)
                                             , (fetch (CONTEXTS KEY) of (fetch MACROCONTEXT of B))
,@(AND (NEQ (SETQ KEY (fetch (WAKEUPS KEY) of (fetch WAKEUP of B)))
                                                            NONIMMEDIATE)
                                                      (LIST KEY))
                                             ,@(AND (NEQ (SETQ KEY (fetch (ESCAPES KEY) of (fetch ESCAPE of B)))
                                                            'ESCQUOTE)
                                                      (LIST KEY))
                                             , (fetch MACROFN of E])
(\GTREADTABLE
                                                                             (* bvm%: " 5-May-86 11:05")
   [LAMBDA (X FLG)
     (SELECTQ X
          ((NIL T)
                (\DTEST *READTABLE* 'READTABLEP))
          (\GTREADTABLE1 X FLG])
(\GTREADTABLE1
  [LAMBDA (X FLG)
                                                                             (* bvm%: "27-Jul-86 15:37")
        ((type? READTABLEP X)
        ((AND FLG (GETHASH X \READTABLEHASH)))
        (T (LISPERROR "ILLEGAL READTABLE" X])
(\ORIGREADTABLE
                                                                             ; Edited 6-Nov-91 14:37 by jrb:
   [LAMBDA NIL
    ;; Creates a copy of the 'original' read-table.
     (LET ((FOO (\TYPEGLOBALVARIABLE 'READTABLEP T)))
           (DECLARE (SPECVARS FOO))
           (PROG [(TBL (create READTABLEP
                                 READMACROFLG
                                 {\tt ESCAPEFLG} \ \_ \ {\tt T}
                                 NUMBERBASE _ 10
USESILPACKAGE _ T
ESCAPECHAR _ (CHARCODE %%)
                                 PACKAGECHAR _ (PROGN
                                             ;; Need to have a character for package delimiter in all read tables, but for old read tables want one
                                             that is unlikely to have appeared in a symbol in an old source file. Also would like it to be a 7-bit
                                             ;; char, so we don't needlessly force MAKEFILE to produce binary files.
                                                           (CHARCODE "^^"))
                                 HASHMACROCHAR _ (CHARCODE " | "]
            ;; Actually, 'I' is not defined in ORIG table, but rather later. But the radix printer and others want it, and this is better than nothing
                  (SETSEPR (CHARCODE (SPACE TENEXEOL CR ^L LF TAB))
                  (\SETREADSYNTAX (CHARCODE %])
                          'RIGHTBRACKET TBL)
                  (\SETREADSYNTAX (CHARCODE %[)
                           LEFTBRACKET TBL)
                  (\SETREADSYNTAX (CHARCODE %))
                           RIGHTPAREN TBL)
                  (\SETREADSYNTAX (CHARCODE %()
                           LEFTPAREN TBL)
                  (\SETREADSYNTAX (CHARCODE %%)
                           'ESCAPE TBL)
                  (\SETREADSYNTAX (CHARCODE %")
'STRINGDELIM TBL)
                  (\SETREADSYNTAX 167 'PACKAGEDELIM TBL)
                                                                             ; Old choice for package delim char: the NS section symbol.
                                                                             ; Keep for compatibility with Lyric Beta files
                  (\SETREADSYNTAX (CHARCODE "^^")
                          'PACKAGEDELIM TBL)
                  (RETURN TBL])
(\READCLASSTOCODE
                                                                             (* bvm%: " 9-Jul-85 00:43")
   [LAMBDA (CLASS)
;;; This turns into a SELECTQ that goes from CLASS token to numeric code
     (\COMPUTED.FORM '(SELECTQ CLASS
                               (\,@ READCLASSTOKENS)
                                                                             ; Synonym for SEPRCHAR
                               (SEPR
                                     SEPRCHAR.RC)
                              NIL])
```

{MEDLEY}<CLTL2>ATBL.;1 Page 13

```
(\SETMACROSYNTAX
  [LAMBDA (C CLASS TBL)
                                                                           (* rmk%: " 3-Jan-84 13:20")
    (OR (AND (FMEMB (CAR CLASS)
'(MACRO SPLICE INFIX))
               (CDR CLASS))
         (\ILLEGAL.ARG CLASS))
    (PROG (CONTEXT WAKEUP ESCAPE (LST CLASS)
                   (A (fetch READMACRODEFS of TBL)))
           (COND
               ([CDR (SETQ LST (LISTP (CDR LST]
                (OR [AND (NULL CONTEXT)
                           (SETO CONTEXT (fetch (CONTEXTS VAL) of (CAR LST)
                     [AND (NULL WAKEUP)
                           (SETQ WAKEUP (fetch (WAKEUPS VAL) of (CAR LST]
                     [AND (NULL ESCAPE)
                           (SETQ ESCAPE (fetch (ESCAPES VAL) of (CAR LST]
                     (\ILLEGAL.ARG CLASS))
                (GO LP)))
           (OR (LISTP LST)
                (\ILLEGAL.ARG CLASS))
           [COND
               (A
                  ;; This hack guarantees that the hasharray will not overflow and cause an error in the uninterruptable PUTHASH below. If it didn't
                  ;; already have a value for C, then the macro bits are not set in C's syntax code, so the T value is harmless.
                  (OR (GETHASH C A) (PUTHASH C T A)))
               (T (replace READMACRODEFS of TBL with (SETQ A (HASHARRAY 7 7]
           (UNINTERRUPTABLY
                (PUTHASH C (create READMACRODEF
                                    MACROTYPE _ (CAR CLAMACROFN _ (CAR LST))
                                                  (CAR CLASS)
                (\SETSYNCODE (fetch READSA of TBL)
                        (LOGOR (OR CONTEXT ALWAYS.RMC)
                                (OR ESCAPE ESC.RME)
                                (OR WAKEUP NONIMMEDIATE.RMW))))])
(\SETREADSYNTAX
                                                                           (* bvm%: " 8-Mar-86 16:37")
  [LAMBDA (C CLASS TBL)
    (PROG ((OLDSYNTAX (\SYNCODE (fetch (READTABLEP READSA) of TBL)
                                 C))
            TEM)
           [COND
               ((EQ CLASS 'BREAK)
                (COND
                    ((fetch BREAK of OLDSYNTAX)
                     (RETURN))
                    (T (SETQ CLASS 'BREAKCHAR]
                                                                           ; If already a BREAK character but also something else, like
                                                                           ; LPAR, leave it alone
           (COND
               ((LISTP CLASS)
               (\SETMACROSYNTAX C CLASS TBL))
((SETQ TEM (\READCLASSTOCODE CLASS))
                (UNINTERRUPTABLY
                    [COND
                        ((fetch MACROP of OLDSYNTAX)
                                                                           ; No longer a macro
                     (REMHASH C (fetch READMACRODEFS of TBL]
(\SETSYNCODE (fetch READSA of TBL)
                            C TEM)))
               (T (\ILLEGAL.ARG CLASS])
(\READTABLEP.DEFPRINT
  [LAMBDA (RDTBL STREAM)
                                                                           (* bvm%: "13-Oct-86 17:32")
    ;; Print read table as, for example, #<ReadTable name/76,5432>
    (LET ((NAME (fetch (READTABLEP READTBLNAME) of RDTBL)))
          [.SPACECHECK. STREAM (IPLUS (CONSTANT (NCHARS "<ReadTable />"))
                                           (PROGN
                                                                          ; Longest address is '177,177777'
                                           (COND
                                              (NAME (NCHARS NAME))
          (\OUTCHAR STREAM (fetch (READTABLEP HASHMACROCHAR) of *READTABLE*))
          (\SOUT "<ReadTable" STREAM)
          (COND
             (NAME (\OUTCHAR STREAM (CHARCODE SPACE))
                    (\SOUT (MKSTRING NAME)
                             STREAM)))
          (\OUTCHAR STREAM (CHARCODE /))
(\PRINTADDR RDTBL STREAM)
          (\OUTCHAR STREAM (CHARCODE >))
```

T1)

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{MEDLEY} < CLTL2 > ATBL.; 1
(PUTPROPS READTABLEPROP ARGNAMES (RDTBL PROP NEWVALUE))
(DECLARE%: EVAL@COMPILE DONTCOPY
(RPAQQ READCLASSTOKENS
        ((OTHER 0)
         (SEPRCHAR (LOGOR ESCAPEBIT STOPATOMBIT 0))
         (BREAKCHAR (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 0))
         (STRINGDELIM (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 1))
         (LEFTPAREN (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 2))
         (RIGHTPAREN (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 3)) (LEFTBRACKET (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 4)) (RIGHTBRACKET (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 5))
         (ESCAPE (LOGOR ESCAPEBIT INNERESCAPEBIT 6))
         (MULTIPLE-ESCAPE (LOGOR ESCAPEBIT INNERESCAPEBIT 7))
         (PACKAGEDELIM (LOGOR ESCAPEBIT INNERESCAPEBIT 1))))
(RPAO READCLASSES [MAPCAR READCLASSTOKENS (FUNCTION (LAMBDA (PAIR)
                                                                     (LIST (PACK* (CAR PAIR)
                                                                                   ".RC")
                                                                           (CADR PAIR1)
(DECLARE%: EVAL@COMPILE
(PUTPROPS \COMPUTED.FORM MACRO [X (CONS 'PROGN (MAPCAR X (FUNCTION EVAL])
(DECLARE%: EVAL@COMPILE
[ACCESSFNS CONTEXTS ((KEY (SELECTC DATUM
                                  (ALWAYS.RMC 'ALWAYS)
                                  (FIRST.RMC 'FIRST)
(ALONE.RMC 'ALONE)
                                  NIL))
                        (VAL (SELECTQ DATUM
                                  (ALWAYS ALWAYS.RMC)
                                  (FIRST FIRST.RMC)
                                  (ALONE ALONE.RMC)
                                  NIL]
[ACCESSFNS ESCAPES ((KEY (SELECTC DATUM
                                 (ESC.RME 'ESCQUOTE)
                                 (NOESC.RME 'NOESCQUOTE)
                                 NIL))
                      (VAL (SELECTO DATUM
                                 ((ESCQUOTE ESC)
                                      ESC.RME)
                                 ((NOESCQUOTE NOESC)
                                      NOESC.RME)
                                 NILl
[ACCESSFNS WAKEUPS ((KEY (SELECTC DATUM
                                 (IMMEDIATE.RMW
                                      'IMMEDIATE)
                                 (NONIMMEDIATE.RMW
                                      'NONIMMEDIATE)
                                 NIL))
                      (VAL (SELECTQ DATUM
                                 ((IMMEDIATE IMMED WAKEUP)
                                      IMMEDIATE.RMW)
                                 ((NONIMMEDIATE NONIMMED NOWAKEUP)
                                      NONIMMEDIATE.RMW)
                                 NILl
;; FOLLOWING DEFINITIONS EXPORTED
(DECLARE%: EVAL@COMPILE
(PUTPROPS \GETREADMACRODEF MACRO ((C TBL)
                                          (GETHASH C (fetch READMACRODEFS of TBL))))
(PUTPROPS \GTREADTABLE MACRO [ARGS (COND
                                             [(LITATOM (CAR ARGS))
(SUBPAIR '(X . FLG)
                                                      ARGS
                                                      '(SELECTQ X
                                                             ((NIL T)
                                                                  (\DTEST *READTABLE* 'READTABLEP))
                                                             (\GTREADTABLE1 X . FLG]
                                              (T 'IGNOREMACRO])
(PUTPROPS \GTREADTABLE1 DMACRO [ARGS (COND
                                                [(NULL (CDR ARGS))
(LIST '\DTEST (CAR ARGS)
```

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```
{MEDLEY} < CLTL2 > ATBL.; 1 (\GTREADTABLE1 cont.)
                                                     ''READTABLEP]
                                              (T 'IGNOREMACRO])
(DECLARE%: EVAL@COMPILE
(RPAQQ MACROBIT 8)
(RPAQQ BREAKBIT 16)
(RPAQQ STOPATOMBIT 32)
(RPAOO ESCAPEBIT 64)
(RPAQQ INNERESCAPEBIT 4)
(CONSTANTS MACROBIT BREAKBIT STOPATOMBIT ESCAPEBIT INNERESCAPEBIT)
(RPAQQ READCODEMASKS ((CONTEXTMASK (LOGOR MACROBIT STOPATOMBIT BREAKBIT 1))
                          (WAKEUPMASK (LOGOR MACROBIT 2))))
(DECLARE%: EVAL@COMPILE
(RPAQ CONTEXTMASK (LOGOR MACROBIT STOPATOMBIT BREAKBIT 1))
(RPAQ WAKEUPMASK (LOGOR MACROBIT 2))
(CONSTANTS (CONTEXTMASK (LOGOR MACROBIT STOPATOMBIT BREAKBIT 1))
       (WAKEUPMASK (LOGOR MACROBIT 2)))
(RPAQQ READMACROCONTEXTS ((ALWAYS.RMC (LOGOR MACROBIT STOPATOMBIT BREAKBIT 0))
                               (FIRST.RMC (LOGOR MACROBIT 0))
                               (ALONE.RMC (LOGOR MACROBIT 1))))
(DECLARE%: EVAL@COMPILE
(RPAQ ALWAYS.RMC (LOGOR MACROBIT STOPATOMBIT BREAKBIT 0))
(RPAQ FIRST.RMC (LOGOR MACROBIT 0))
(RPAQ ALONE.RMC (LOGOR MACROBIT 1))
(CONSTANTS (ALWAYS.RMC (LOGOR MACROBIT STOPATOMBIT BREAKBIT 0))
       (FIRST.RMC (LOGOR MACROBIT 0))
(ALONE.RMC (LOGOR MACROBIT 1)))
(RPAQQ READCLASSES
       ((OTHER.RC 0)
                      (LOGOR ESCAPEBIT STOPATOMBIT 0))
        (SEPRCHAR.RC
        (BREAKCHAR.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 0))
        (STRINGDELIM.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 1))
        (LEFTPAREN.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 2)) (RIGHTPAREN.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 3))
        (LEFTBRACKET.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 4))
(RIGHTBRACKET.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 5))
        (ESCAPE.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 6))
        (MULTIPLE-ESCAPE.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 7))
        (PACKAGEDELIM.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 1))))
(DECLARE%: EVAL@COMPILE
(RPAOO OTHER.RC 0)
(RPAQ SEPRCHAR.RC (LOGOR ESCAPEBIT STOPATOMBIT 0))
(RPAQ BREAKCHAR.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 0))
(RPAQ STRINGDELIM.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 1))
(RPAQ LEFTPAREN.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 2))
(RPAQ RIGHTPAREN.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 3))
(RPAQ LEFTBRACKET.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 4))
(RPAO RIGHTBRACKET.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 5))
(RPAQ ESCAPE.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 6))
(RPAQ MULTIPLE-ESCAPE.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 7))
(RPAQ PACKAGEDELIM.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 1))
```

(CONSTANTS (OTHER.RC 0)

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```
(SEPRCHAR.RC (LOGOR ESCAPEBIT STOPATOMBIT 0))
         (BREAKCHAR.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 0))
         (STRINGDELIM.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 1))
         (LEFTPAREN.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 2))
(RIGHTPAREN.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 3))
         (LEFTBRACKET.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 4))
         (RIGHTBRACKET.RC (LOGOR ESCAPEBIT STOPATOMBIT BREAKBIT 5))
         (ESCAPE.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 6))
         (MULTIPLE-ESCAPE.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 7))
         (PACKAGEDELIM.RC (LOGOR ESCAPEBIT INNERESCAPEBIT 1)))
(RPAOO READMACROWAKEUPS ((IMMEDIATE.RMW (LOGOR MACROBIT 2))
                                    (NONIMMEDIATE.RMW (LOGOR MACROBIT 0))))
(DECLARE%: EVAL@COMPILE
(RPAQ IMMEDIATE.RMW (LOGOR MACROBIT 2))
(RPAO NONIMMEDIATE.RMW (LOGOR MACROBIT 0))
(CONSTANTS (IMMEDIATE.RMW (LOGOR MACROBIT 2))
         (NONIMMEDIATE.RMW (LOGOR MACROBIT 0)))
(RPAQQ READMACROESCAPES ((ESC.RME ESCAPEBIT)
                                   (NOESC.RME 0)))
(DECLARE%: EVAL@COMPILE
(RPAQ ESC.RME ESCAPEBIT)
(RPAQO NOESC.RME 0)
(CONSTANTS (ESC.RME ESCAPEBIT)
         (NOESC.RME 0))
(DECLARE%: EVAL@COMPILE
[ACCESSFNS READCODE ((ESCAPE (LOGAND DATUM ESCAPEBIT))
                          (ESCQUOTE (BITTEST DATUM ESCAPEBIT))
                          (STOPATOM (BITTEST DATUM STOPATOMBIT))
                           (INNERESCQUOTE (BITTEST DATUM (LOGOR STOPATOMBIT INNERESCAPEBIT)))
                           (MACROCONTEXT (LOGAND DATUM CONTEXTMASK))
                           (MACROP (BITTEST DATUM MACROBIT))
                          (WAKEUP (LOGAND DATUM WAKEUPMASK))
(BREAK (BITTEST DATUM BREAKBIT]
(RECORD READMACRODEF (MACROTYPE . MACROFN))
                                                                                 ; A CHARTABLE defining syntax of each char
                         ((READSA POINTER)
(DATATYPE READTABLEP
                                                                                  A hash table associating macro chars with macro definitions
                            (READMACRODEFS POINTER)
                                                                                  True if read macros are enabled (turned off by Interlisp's crufty
                            (READMACROFLG FLAG)
                                                                                  READMACROS function)
                                                                                 True if the char(s) with escape syntax are enabled (turned off by Interlisp's crufty ESCAPE function)
True if table is a Common Lisp read table and hence must obey
                            (ESCAPEFLG FLAG)
                            (COMMONLISP FLAG)
                                                                                  Common Lisp syntax rules
                            (NUMBERBASE BITS 5)
                                                                                  Not used
                            (CASEINSENSITIVE FLAG)
                                                                                  If true, unescaped lowercase chars are converted to uppercase
                                                                                  in symbols
                                                                                  Trué if number notation includes Common Lisp numbers:
                            (COMMONNUMSYNTAX FLAG)
                                                                                  rationals as a/b, and the dfls exponent markers
If true, IL:READ ignores *PACKAGE* and reads in the IL
                            (USESILPACKAGE FLAG)
                                                                                  package
                                                                                  This flag plus CASEINSENSITIVE = CL:READTABLE-CASE as required by CLtL2, as follows: :PRESERVE - (not ci) and (not If)
                            (LOWER/FLIPCASE FLAG)
                                                                                  :INVERT - (not ci) and If
:UPCASE - ci and (not If)
                                                                                  :DOWNCASE - ci and If
                                                                                  You are urged to use CL:READTABLE-CASE and its setf
                                                                                 instead of accessing these flags directly
                            (NIL 4 FLAG)
                            (DISPATCHMACRODEFS POINTER)
                                                                                  An a-list of dispatching macro char and its dispatch definitions
                            (HASHMACROCHAR BYTE)
                                                                                  The character code used in this read table for the # dispatch
                            (ESCAPECHAR BYTE)
                                                                                  The character code used in this read table for single escape
                                                                                  The character code used in this read table for multiple escape
                            (MULTESCAPECHAR BYTE)
                                                                                  The character code used in this read table for package delimiter
                            (PACKAGECHAR BYTE)
                                                                                 The canonical 'name' of this read table
                            (READTBLNAME POINTER)
        READSA _ (create CHARTABLE))
)
```

```
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                                                                                                                             Page 17
(/DECLAREDATATYPE 'READTABLEP
        ' (POINTER POINTER FLAG FLAG FLAG (BITS 5)
                 FLAG FLAG FLAG FLAG FLAG FLAG FLAG POINTER BYTE BYTE BYTE BYTE POINTER)
        ;; ---field descriptor list elided by lister---
;; END EXPORTED DEFINITIONS
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(GLOBALVARS \ORIGREADTABLE \READTABLEHASH \ORIGTERMTABLE)
(/DECLAREDATATYPE 'READTABLEP
        ' (POINTER POINTER FLAG FLAG FLAG (BITS 5)
                 FLAG FLAG FLAG FLAG FLAG FLAG FLAG POINTER BYTE BYTE BYTE BYTE POINTER)
        ;; ---field descriptor list elided by lister---
        ′10)
(DEFINEQ
(\ATBLSET
                                                                            ; Edited 3-Dec-86 18:07 by Pavel
     (DECLARE (GLOBALVARS \ORIGREADTABLE \ORIGTERMTABLE))
     (COND
        ((NULL (BOUNDP '\PRIMREADTABLE))
         (initrecord CHARTABLE)
         ;; Read tables
         (SETQ \READTABLEHASH (HASHARRAY 20 NIL (FUNCTION STRING-EQUAL-HASHBITS)
                                          (FUNCTION STRING-EQUAL)))
         (LET (TRDTBL NEW-IL-RDTBL)
                                                                            : The ORIG read table
               (PROGN
                        (SETQ \ORIGREADTABLE (\ORIGREADTABLE))
                        (READTABLEPROP \ORIGREADTABLE 'NAME 'ORIG))
                                                                             The old Interlisp T read table. May not have a use for this any
               (PROGN
                                                                             more
                        (SETQ TRDTBL (COPYREADTABLE \ORIGREADTABLE))
                       (SETSYNTAX (CHARCODE "
                                ' (MACRO READVBAR)
                               TRDTBL)
                       (SETSYNTAX (CHARCODE "'")
                                ' (MACRO FIRST READBQUOTE)
                                TRDTBL)
                        (SETSYNTAX (CHARCODE ",")
                                ' (MACRO FIRST READBQUOTECOMMA)
                                TRDTBL)
                       (SETSYNTAX (CHARCODE "'")
                               ' (MACRO FIRST READQUOTE)
                        (READTABLEPROP TRDTBL 'NAME "OLD-INTERLISP-T")
                                                                            ; Temporary
                                (SETTOPVAL '%#CURRENTRDTBL# TRDTBL)))
                                                                            ; The old FILERDTBL
               (PROGN
                       (SETQ FILERDTBL (COPYREADTABLE \ORIGREADTABLE))
                       (SETSYNTAX (CHARCODE " | ")
                                TRDTBL FILERDTBL)
                       (READTABLEPROP FILERDTBL 'NAME "OLD-INTERLISP-FILE")
                       (SETO *OLD-INTERLISP-READ-ENVIRONMENT* (create READER-ENVIRONMENT
                                                                              REREADTABLE _ FILERDTBL
REBASE _ 10))
                                                                            ; need this to read files in the loadup
               (PROGN (SETQ NEW-IL-RDTBL (COPYREADTABLE TRDTBL)); The new Interlisp read table is more common lispy
                        (READTABLEPROP NEW-IL-RDTBL 'MULTIPLE-ESCAPECHAR (CHARCODE "|"))
(READTABLEPROP NEW-IL-RDTBL 'HASHMACROCHAR (CHARCODE "#"))
                       (SET-DEFAULT-HASHMACRO-SETTINGS NEW-IL-RDTBL)
(READTABLEPROP NEW-IL-RDTBL 'COMMONNUMSYNTAX T)
(READTABLEPROP NEW-IL-RDTBL 'USESILPACKAGE NIL)
(READTABLEPROP NEW-IL-RDTBL 'NAME "INTERLISP")
                        (for I from 1 to 26 do (SETSYNTAX I 'SEPRCHAR FILERDIBL)
                                                                            ; Make font switch chars seprs
                                                 (SETSYNTAX I 'SEPRCHAR NEW-IL-RDTBL))
                       (SETQ *READTABLE* NEW-IL-RDTBL))
               ;; Make ^Y like #. in the old T readtable and the new INTERLISP one.
               (SETSYNTAX (CHARCODE ^Y)
```

'[MACRO ALWAYS (LAMBDA (FILE RDTBL)

(DEFPRINT 'READTABLEP '\READTABLEP.DEFPRINT))

TRDTBL)
(SETSYNTAX (CHARCODE ^Y)

TRDTBL NEW-IL-RDTBL)

(EVAL (READ FILE RDTBL]

```
;; Terminal tables
         (SETQ \ORIGTERMTABLE (\ORIGTERMTABLE))
(SETQ \PRIMTERMTABLE (COPYTERMTABLE \ORIGTERMTABLE))
         (SETQ \PRIMTERMSA (fetch TERMSA of \PRIMTERMTABLE)) (PUTD '\ATBLSET)
         (PUTD '\ORIGTERMTABLE)
         NIL])
(/DECLAREDATATYPE 'READER-ENVIRONMENT '(POINTER POINTER POINTER)
        ;; ---field descriptor list elided by lister---
        ′8)
;; Definition is on CMLREAD, need it here to initialize *OLD-INTERLISP-READ-ENVIRONMENT*
(DEFINEQ
(MAKE-READER-ENVIRONMENT
  [LAMBDA (PACKAGE READTABLE BASE)
                                                                           ; Edited 18-Dec-86 18:28 by bvm:
     (create READER-ENVIRONMENT
            REPACKAGE _ (COND
                              (PACKAGE (\DTEST PACKAGE 'PACKAGE))
                              (T *PACKAGE*))
            REREADTABLE _ (COND
                                (READTABLE (\DTEST READTABLE 'READTABLEP))
                                (T *READTABLE*))
            REBASE _ (COND
                           (BASE (\CHECKRADIX BASE))
                           (T *PRINT-BASE*])
(EQUAL-READER-ENVIRONMENT
                                                                           (* bvm%: "31-Jul-86 12:54")
  [LAMBDA (ENV1 ENV2)
     (AND (EQ (fetch (READER-ENVIRONMENT REREADTABLE) of ENV1)
               (fetch (READER-ENVIRONMENT REREADTABLE) of ENV2))
(fetch (READER-ENVIRONMENT REPACKAGE) of ENV1)
               (fetch (READER-ENVIRONMENT REPACKAGE) of ENV2))
               (fetch (READER-ENVIRONMENT REBASE) of ENV1)
               (fetch (READER-ENVIRONMENT REBASE) of ENV2])
(SET-READER-ENVIRONMENT
  [LAMBDA (ENV)
                                                                           (* bvm%: "28-Aug-86 17:44")
;;; Sets the reader environment variables from ENV. Should usually only be called inside a WITH-READER-ENVIRONMENT.
     [SETQ *PACKAGE* (ffetch REPACKAGE of (\DTEST ENV 'READER-ENVIRONMENT]
     (SETQ *READTABLE* (ffetch REREADTABLE of ENV))
(SETQ *READ-BASE* (SETQ *PRINT-BASE* (ffetch REBASE of ENV)))
    ENV])
(RPAQ? *LISP-PACKAGE* )
(RPAQ? *INTERLISP-PACKAGE* )
(RPAQ? *KEYWORD-PACKAGE* )
(DECLARE%: DONTEVAL@LOAD DOCOPY
(\ATBLSET)
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(LOCALVARS . T)
(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS
(ADDTOVAR NLAMA )
(ADDTOVAR NLAML)
(ADDTOVAR LAMA READTABLEPROP)
```

(PUTPROPS ATBL COPYRIGHT ("Venue & Xerox Corporation" 1982 1983 1984 1985 1986 1987 1990 1991))

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