


```

                                SLOTS)
                                &AUX
                                (VALUE 0))
,@ (MAPCAR
  #' (LAMBDA
    (S)
      ` (WHEN , (SLOT-SUPPLIED-P S)
        (SETQ VALUE , (COND
          ((EQ (SLOT-TYPE S)
              ' :BOOLEAN)
            `(LOGIOR (IF , , (SLOT-NAME S)
                      , , (ASH 1 (SLOT-LOCATION S))
                      0)
                    , VALUE))
          ((SLOT-SIGNED S)
            `(DPB , , (SLOT-NAME S)
                , , (BYTE (SLOT-SIZE S)
                          (SLOT-LOCATION S))
                , VALUE))
          (T `(LOGIOR (ASH , , (SLOT-NAME S)
                        , , (SLOT-LOCATION S))
                  , VALUE))))))
    SLOTS)
  VALUE))))

```

```

(DEFUN SIGNED-LDB (BYTESPEC INTEGER)
  (FLET ((SIGN-EXTEND (NUMBER POSITION)
    (IF (LOGBITP (1- POSITION)
        NUMBER)
      (DPB NUMBER (BYTE POSITION 0)
          -1)
      NUMBER)))
  (SIGN-EXTEND (LDB BYTESPEC INTEGER)
    (BYTE-SIZE BYTESPEC))))

```

```

(DEFINE-SETF-METHOD LOGBITP (INDEX INTEGER)
  (MULTIPLE-VALUE-BIND (TEMPS VALS STORES STORE-FORM ACCESS-FORM)
    (GET-SETF-METHOD INTEGER) ; get SETF method for integer.
    (LET ((BTEMP (IL:GENSYM)) ; Temp var for index
          (STORE (IL:GENSYM)) ; Temp var for new value
          (STEMP (FIRST STORES)) ; Temp var for int to store.
          )
      (VALUES (CONS BTEMP TEMPS) ; Temporary variables.
              (CONS INDEX VALS) ; Value forms.
              (LIST STORE) ; Store variables.
              ` (LET ((,STEMP (IF ,STORE
                              (LOGIOR ,ACCESS-FORM (ASH 1 ,BTEMP))
                              (LOGANDC2 ,ACCESS-FORM (ASH 1 ,BTEMP))))
                    ,STORE-FORM
                    ,STORE) ; Storing form
                `(LOGBITP ,BTEMP ,ACCESS-FORM))))))

```

```

(IL:PUTPROPS IL:PACKED-STRUCTURE IL:MAKEFILE-ENVIRONMENT (:READTABLE "XCL" :PACKAGE "XCL-USER"))
(IL:PUTPROPS IL:PACKED-STRUCTURE IL:COPYRIGHT ("Xerox Corporation" 1987))

```

FUNCTION INDEX

SIGNED-LDB2

PROPERTY INDEX

IL:PACKED-STRUCTURE2

SETF INDEX

LOGBITP2

DEFINER INDEX

DEF-PACKED-STRUCTURE1
