```
(IL:* IL:* ; "
```
```
")
```

(IL:RPAQQ **IL:XCL-PACKAGECOMS**
            (

;;; Setting up the XCL package.

```
            (IL:FUNCTIONS CL::DEFECT-FROM-IL-TO-XCL CL::CHECK-ALL)
            (IL:VARIABLES CL::FUTURE-CITIZENS-OF-XCL)
            (IL:DECLARE%: IL:DONTEVAL@LOAD IL:DOCOPY
                    (IL:P  ;; New exports from XCL should go in the EXPORT clause here

                        (DEFPACKAGE "XEROX-COMMON-LISP" (:USE "LISP" "CONDITIONS")
                                (:NICKNAMES "XCL")
                                (:PREFIX-NAME "XCL")
                                (:EXPORT ARGLIST SET-EXEC-TYPE SET-DEFAULT-EXEC-TYPE SYNONYM-STREAM-P
                                        SYNONYM-STREAM-SYMBOL FOLLOW-SYNONYM-STREAMS BROADCAST-STREAM-P
                                        BROADCAST-STREAM-STREAMS CONCATENATED-STREAM-P CONCATENATED-STREAM-STREAMS
                                        TWO-WAY-STREAM-P TWO-WAY-STREAM-INPUT-STREAM TWO-WAY-STREAM-OUTPUT-STREAM
                                        ECHO-STREAM-P ECHO-STREAM-INPUT-STREAM ECHO-STREAM-OUTPUT-STREAM
                                        STRING-STREAM-P OPEN-STREAM-P *CURRENT-CONDITION* *EVAL-FUNCTION*
                                        *EXEC-PROMPT* *DEBUGGER-PROMPT* MAKE-PROFILE RESTORE-PROFILE SAVE-PROFILE
                                        WITH-PROFILE COPY-PROFILE PROFILE-NAME PROFILE-P FIND-PROFILE
                                        LIST-ALL-PROFILES DEFPROFILE PROFILES *DEFAULT-PROFILE* *PROFILE* PACK
                                        PACK* *PRINT-STRUCTURE* DO-INTERNAL-SYMBOLS PKG-GOTO READ-CONFLICT
                                        READ-CONFLICT-NAME READ-CONFLICT-PACKAGES MISSING-EXTERNAL-SYMBOL
                                        MISSING-EXTERNAL-SYMBOL-NAME MISSING-EXTERNAL-SYMBOL-PACKAGE
                                        MISSING-PACKAGE MISSING-PACKAGE-PACKAGE-NAME MISSING-PACKAGE-SYMBOL-NAME
                                        MISSING-PACKAGE-EXTERNAL PACKAGE-ERROR PACKAGE-ERROR-PACKAGE
                                        SYMBOL-CONFLICT SYMBOL-CONFLICT-SYMBOLS USE-CONFLICT
                                        USE-CONFLICT-USED-PACKAGE EXPORT-CONFLICT EXPORT-CONFLICT-EXPORTED-SYMBOLS
                                        SYMBOL-COLON-ERROR ESCAPE-COLONS-PROCEED EXPORT-CONFLICT-PACAKGES
                                        EXPORT-MISSING EXPORT-MISSING-SYMBOLS IMPORT-CONFLICT UNINTERN-CONFLICT
                                        UNINTERN-CONFLICT-SYMBOL PREFER-CLSYM-PROCEED RETURN-CLSYM-PROCEED
                                        PREFER-ILSYM-PROCEED RETURN-ILSYM-PROCEED MAKE-EXTERNAL-PROCEED
                                        MAKE-INTERNAL-PROCEED NEW-PACKAGE-PROCEED UGLY-SYMBOL-PROCEED
                                        SHADOW-USE-CONFLICTS-PROCEED UNINTERN-USER-PROCEED UNINTERN-USEE-PROCEED
                                        UNINTERN-PROCEED IMPORT-PROCEED SHADOWING-IMPORT-PROCEED *TRACE-IO*
                                        HASH-TABLE-FULL HASH-TABLE-FULL-TABLE ATTEMPT-TO-CHANGE-CONSTANT
                                        ATTEMPT-TO-CHANGE-CONSTANT-NAME ATTEMPT-TO-RPLAC-NIL
                                        ATTEMPT-TO-RPLAC-NIL-NAME TYPE-ERROR-EXPECTED-TYPE SIMPLE-TYPE-ERROR
                                        SIMPLE-TYPE-ERROR-EXPECTED-TYPE SIMPLE-TYPE-ERROR-CULPRIT STREAM-NOT-OPEN
                                        STREAM-NOT-OPEN-STREAM SYMBOL-NAME-TOO-LONG SYMBOL-NAME-TOO-LONG-STREAM
                                        SYMBOL-HT-FULL ARRAY-SPACE-FULL DATA-TYPES-EXHAUSTED DEVICE-ERROR
                                        DEVICE-ERROR-DEVICE SIMPLE-DEVICE-ERROR SIMPLE-DEVICE-ERROR-DEVICE
                                        SIMPLE-DEVICE-ERROR-MESSAGE FS-ERROR FILE-WONT-OPEN
                                        FILE-WONT-OPEN-PATHNAME FS-RESOURCES-EXCEEDED FS-PROTECTION-VIOLATION
                                        ARITHMETIC-ERROR ARITHMETIC-ERROR-OPERATION ARITHMETIC-ERROR-OPERANDS
                                        FLOATING-OVERFLOW FLOATING-OVERFLOW-OPERATION FLOATING-OVERFLOW-OPERANDS
                                        FLOATING-UNDERFLOW FLOATING-UNDERFLOW-OPERATION
                                        FLOATING-UNDERFLOW-OPERANDS PATHNAME-ERROR PATHNAME-ERROR-PATHNAME
                                        FILE-NOT-FOUND FILE-NOT-FOUND-PATHNAME INVALID-PATHNAME
                                        INVALID-PATHNAME-PATHNAME CONTROL-E-INTERRUPT CONTROL-E-INTERRUPT-FUNCTION
                                        ASSERTION-FAILED ASSERTION-FAILED-FORMAT-STRING
                                        ASSERTION-FAILED-FORMAT-ARGUMENTS BAD-PROCEED-CASE BAD-PROCEED-CASE-NAME
                                        TYPE-MISMATCH TYPE-MISMATCH-EXPECTED-TYPE TYPE-MISMATCH-VALUE
                                        TYPE-MISMATCH-MESSAGE STORAGE-EXHAUSTED CREATE-TRACE-WINDOW
                                        UNBREAK-FUNCTION REBREAK-FUNCTION TRACE-FUNCTION *TRACE-LEVEL*
                                        *TRACE-LENGTH* *TRACE-VERBOSE* INNER REINSTALL-ADVICE ADVISE-FUNCTION
                                        UNADVISE-FUNCTION READVISE-FUNCTION ADVISED-FUNCTIONS DEFADVICE
                                        WITH-COLLECTION COLLECT ONCE-ONLY *SHORT-SITE-NAME* *LONG-SITE-NAME*
                                        DEFINER NAMED-PROGN COMPILE-DEFINER COMPILE-FORM FALSE FILE-ENVIRONMENTS
                                        DEFINE-FILE-ENVIRONMENT *BREAK-ON-SIGNALS* HANDLER-CASE
                                        WITH-SIMPLE-RESTART RESTART-CASE RESTART-BIND COMPUTE-RESTARTS
                                        RESTART-NAME FIND-RESTART INVOKE-RESTART INVOKE-RESTART-INTERACTIVELY
                                        CONTINUE MUFFLE-WARNING INVOKE-DEBUGGER RESTART TYPE-ERROR
                                        TYPE-ERROR-DATUM PROGRAM-ERROR FILE-ERROR FILE-ERROR-PATHNAME
                                        DIVISION-BY-ZERO FLOATING-POINT-OVERFLOW FLOATING-POINT-UNDERFLOW
                                        ROW-MAJOR-AREF RECORD-FETCH RECORD-FFETCH RECORD-CREATE DEFINE-RECORD
                                        PACKAGE-PREFIX))
                        (IL:MAPC CL::FUTURE-CITIZENS-OF-XCL 'CL::DEFECT-FROM-IL-TO-XCL)
                        (CL::CHECK-ALL)))
            ;; Arrange for the proper makefile environment

            (IL:PROP (IL:FILETYPE IL:MAKEFILE-ENVIRONMENT)
```

```
                    IL:XCL-PACKAGE)))
```

;;; Setting up the XCL package.


```
(DEFUN CL::DEFECT-FROM-IL-TO-XCL (CL::NAME)
   (CL::NATURALIZE CL::NAME (FIND-PACKAGE 'CL::IL)
        (FIND-PACKAGE 'CL::XCL)))
```


```
(DEFUN CL::CHECK-ALL ()
   [LET ((CL::XCLP (FIND-PACKAGE "XCL")))
      (DOLIST (CL::X CL::FUTURE-CITIZENS-OF-XCL T)
         (LET* ((CL::S (INTERN CL::X CL::XCLP))
               (CL::P (SYMBOL-PACKAGE CL::S)))
            (IF (NOT (EQ CL::P CL::XCLP))
               (FORMAT T "~S ~S~%%" CL::S CL::P)))
            (LET [(CL::SL (MAPCAN [IL:FUNCTION (LAMBDA (PACKAGE)
                                                 (MULTIPLE-VALUE-BIND (SYMBOL CL::WHERE)
                                                    (FIND-SYMBOL CL::X PACKAGE)
                                                    (AND SYMBOL (EQ CL::WHERE :EXTERNAL)
                                                       (LIST SYMBOL)))]
                               '("IL" "XCL" "CL"]
               (IF (NOT (CASE (LENGTH CL::SL)
                           (2 (EQ (FIRST CL::SL)
                                  (SECOND CL::SL)))
                           (3 (AND (EQ (FIRST CL::SL)
                                       (SECOND CL::SL))
                                   (EQ (SECOND CL::SL)
                                       (THIRD CL::SL))))
                           (T T)))
                  (ERROR "More than one version of this symbol exists: ~s~%%" CL::SL)))]])
```


```
(DEFPARAMETER CL::FUTURE-CITIZENS-OF-XCL
   '(;; new definers
```

"DEFCOMMAND" "DEFDEFINER" "DEFGLOBALPARAMETER" "DEFGLOBALVAR" "DEFINE-CONDITION" "DEFINE-PROCEED-FUNCTION"
"DEFINLINE" "DEFOPTIMIZER" "DEFPACKAGE" "DEF-DEFINE-TYPE" "*DEFINITION-HASH-TABLE*"

;; for UNDO

"DEFINE-UNDOABLE-MODIFY-MACRO" "UNDOABLY" "UNDOABLY-SETF" "DEFINE-SPECIAL-FORM"

;; for the EXEC

"*CURRENT-EVENT*" "EXEC-ID" "*PER-EXEC-VARIABLES*" "*EXEC-MAKE-UNDOABLE-P*" "EXEC-FORMAT" "EXEC-EVAL"
"EXEC" "ADD-EXEC" "EXEC-VALUE-OF"

;; for the debugger

"DEBUGGER" "PRINT-BACKTRACE" "*DEBUGGER-MENU-ITEMS*" "ENTER-DEBUGGER-P" "*DEBUGGER-ENTRY-POINTS*" "HELP"
"UNBREAK" "BREAK-FUNCTION" "*TRACE-DEPTH*"

;; others in alphabetical order

"&CONTEXT" "*DEFAULT-PUSH-EXTENSION-SIZE*" "*PREFERRED-READING-SYMBOLS*" "*TOTAL-PACKAGES-LIMIT*" "ABORT"
"ARRAY-NEEDS-INDIRECTION-P" "ASET" "BIT-ARRAY-P" "CATCH-ABORT" "CELL-ERROR" "CELL-ERROR-NAME"
"COMPUTE-PROCEED-CASES" "CONDITION" "CONDITION-BIND" "CONDITION-CASE" "CONDITION-HANDLER"
"CONDITION-REPORTER" "CONTROL-ERROR" "COPY-ARRAY" "DEBUG" "DEFAULT-PROCEED-REPORT" "DEFAULT-PROCEED-TEST"
"DELETE-PACKAGE" "DESTRUCTURING-BIND" "DESTRUCTURING-SETQ" "DISPLACED-ARRAY-P" "DO-LOCAL-SYMBOLS"
"END-OF-FILE" "END-OF-FILE-STREAM" "EQUAL-DIMENSIONS-P" "EXTENDABLE-ARRAY-P" "FILL-ARRAY" "FILL-VECTOR"
"FIND-PROCEED-CASE" "GLOBAL" "GLOBALIZE" "HANDLER-BIND" "IGNORE-ERRORS" "ILLEGAL-GO" "ILLEGAL-GO-TAG"
"ILLEGAL-RETURN" "ILLEGAL-RETURN-TAG" "ILLEGAL-THROW" "ILLEGAL-THROW-TAG" "INVOKE-PROCEED-CASE"
"MAKE-CONDITION" "MAKE-VECTOR" "OPTIMIZERS" "PARSE-BODY" "PROCEED" "PROCEED-CASE" "PROCEED-CASE-NAME"
"READ-ERROR" "READ-ERROR-STREAM" "READ-ONLY-ARRAY-P" "REMOVE-COMMENTS" "SERIOUS-CONDITION"
"SHADOWING-USE-PACKAGE" "SIGNAL" "SIMPLE-ARRAY-P" "SIMPLE-BREAK" "SIMPLE-BREAK-FORMAT-ARGUMENTS"
"SIMPLE-BREAK-FORMAT-STRING" "SIMPLE-CONDITION" "SIMPLE-CONDITION-FORMAT-ARGUMENTS"
"SIMPLE-CONDITION-FORMAT-STRING" "SIMPLE-ERROR" "SIMPLE-ERROR-FORMAT-ARGUMENTS"
"SIMPLE-ERROR-FORMAT-STRING" "SIMPLE-WARNING" "SIMPLE-WARNING-FORMAT-ARGUMENTS"
"SIMPLE-WARNING-FORMAT-STRING" "STACK-OVERFLOW" "STORAGE-CONDITION" "STORE-VALUE" "STREAM-ERROR"
"STREAM-ERROR-STREAM" "STRING-ARRAY-P" "TRUE" "UNBOUND-VARIABLE" "UNBOUND-VARIABLE-NAME"
"UNDEFINED-FUNCTION" "UNDEFINED-FUNCTION-NAME" "USE-VALUE" "VECTOR-LENGTH" "WALK-FORM"
"WALK-FORM-INTERNAL" "WALK-TEMPLATE" "WARNING")
   "A list of names retroactively placed in XCL; do not add to it.")

(IL:DECLARE%: IL:DONTEVAL@LOAD IL:DOCOPY

;; New exports from XCL should go in the EXPORT clause here

```
(DEFPACKAGE "XEROX-COMMON-LISP" (:USE "LISP" "CONDITIONS")
      (:NICKNAMES "XCL")
      (:PREFIX-NAME "XCL")
      (:EXPORT ARGLIST SET-EXEC-TYPE SET-DEFAULT-EXEC-TYPE SYNONYM-STREAM-P SYNONYM-STREAM-SYMBOL
            FOLLOW-SYNONYM-STREAMS BROADCAST-STREAM-P BROADCAST-STREAM-STREAMS CONCATENATED-STREAM-P
            CONCATENATED-STREAM-STREAMS TWO-WAY-STREAM-P TWO-WAY-STREAM-INPUT-STREAM
            TWO-WAY-STREAM-OUTPUT-STREAM ECHO-STREAM-P ECHO-STREAM-INPUT-STREAM ECHO-STREAM-OUTPUT-STREAM
            STRING-STREAM-P OPEN-STREAM-P *CURRENT-CONDITION* *EVAL-FUNCTION* *EXEC-PROMPT* *DEBUGGER-PROMPT*
            MAKE-PROFILE RESTORE-PROFILE SAVE-PROFILE WITH-PROFILE COPY-PROFILE PROFILE-NAME PROFILE-P
            FIND-PROFILE LIST-ALL-PROFILES DEFPROFILE PROFILES *DEFAULT-PROFILE* *PROFILE* PACK PACK*
```

```
              *PRINT-STRUCTURE* DO-INTERNAL-SYMBOLS PKG-GOTO READ-CONFLICT READ-CONFLICT-NAME
              READ-CONFLICT-PACKAGES MISSING-EXTERNAL-SYMBOL MISSING-EXTERNAL-SYMBOL-NAME
              MISSING-EXTERNAL-SYMBOL-PACKAGE MISSING-PACKAGE MISSING-PACKAGE-PACKAGE-NAME
              MISSING-PACKAGE-SYMBOL-NAME MISSING-PACKAGE-EXTERNAL PACKAGE-ERROR PACKAGE-ERROR-PACKAGE
              SYMBOL-CONFLICT SYMBOL-CONFLICT-SYMBOLS USE-CONFLICT USE-CONFLICT-USED-PACKAGE EXPORT-CONFLICT
              EXPORT-CONFLICT-EXPORTED-SYMBOLS SYMBOL-COLON-ERROR ESCAPE-COLONS-PROCEED EXPORT-CONFLICT-PACAKGES
              EXPORT-MISSING EXPORT-MISSING-SYMBOLS IMPORT-CONFLICT UNINTERN-CONFLICT UNINTERN-CONFLICT-SYMBOL
              PREFER-CLSYM-PROCEED RETURN-CLSYM-PROCEED PREFER-ILSYM-PROCEED RETURN-ILSYM-PROCEED
              MAKE-EXTERNAL-PROCEED MAKE-INTERNAL-PROCEED NEW-PACKAGE-PROCEED UGLY-SYMBOL-PROCEED
              SHADOW-USE-CONFLICTS-PROCEED UNINTERN-USER-PROCEED UNINTERN-USEE-PROCEED UNINTERN-PROCEED
              IMPORT-PROCEED SHADOWING-IMPORT-PROCEED *TRACE-IO* HASH-TABLE-FULL HASH-TABLE-FULL-TABLE
              ATTEMPT-TO-CHANGE-CONSTANT ATTEMPT-TO-CHANGE-CONSTANT-NAME ATTEMPT-TO-RPLAC-NIL
              ATTEMPT-TO-RPLAC-NIL-NAME TYPE-ERROR-EXPECTED-TYPE SIMPLE-TYPE-ERROR
              SIMPLE-TYPE-ERROR-EXPECTED-TYPE SIMPLE-TYPE-ERROR-CULPRIT STREAM-NOT-OPEN STREAM-NOT-OPEN-STREAM
              SYMBOL-NAME-TOO-LONG SYMBOL-NAME-TOO-LONG-STREAM SYMBOL-HT-FULL ARRAY-SPACE-FULL
              DATA-TYPES-EXHAUSTED DEVICE-ERROR DEVICE-ERROR-DEVICE SIMPLE-DEVICE-ERROR
              SIMPLE-DEVICE-ERROR-DEVICE SIMPLE-DEVICE-ERROR-MESSAGE FS-ERROR FILE-WONT-OPEN
              FILE-WONT-OPEN-PATHNAME FS-RESOURCES-EXCEEDED FS-PROTECTION-VIOLATION ARITHMETIC-ERROR
              ARITHMETIC-ERROR-OPERATION ARITHMETIC-ERROR-OPERANDS FLOATING-OVERFLOW FLOATING-OVERFLOW-OPERATION
              FLOATING-OVERFLOW-OPERANDS FLOATING-UNDERFLOW FLOATING-UNDERFLOW-OPERATION
              FLOATING-UNDERFLOW-OPERANDS PATHNAME-ERROR PATHNAME-ERROR-PATHNAME FILE-NOT-FOUND
              FILE-NOT-FOUND-PATHNAME INVALID-PATHNAME INVALID-PATHNAME-PATHNAME CONTROL-E-INTERRUPT
              CONTROL-E-INTERRUPT-FUNCTION ASSERTION-FAILED ASSERTION-FAILED-FORMAT-STRING
              ASSERTION-FAILED-FORMAT-ARGUMENTS BAD-PROCEED-CASE BAD-PROCEED-CASE-NAME TYPE-MISMATCH
              TYPE-MISMATCH-EXPECTED-TYPE TYPE-MISMATCH-VALUE TYPE-MISMATCH-MESSAGE STORAGE-EXHAUSTED
              CREATE-TRACE-WINDOW UNBREAK-FUNCTION REBREAK-FUNCTION TRACE-FUNCTION *TRACE-LEVEL* *TRACE-LENGTH*
              *TRACE-VERBOSE* INNER REINSTALL-ADVICE ADVISE-FUNCTION UNADVISE-FUNCTION READVISE-FUNCTION
              ADVISED-FUNCTIONS DEFADVICE WITH-COLLECTION COLLECT ONCE-ONLY *SHORT-SITE-NAME* *LONG-SITE-NAME*
              DEFINER NAMED-PROGN COMPILE-DEFINER COMPILE-FORM FALSE FILE-ENVIRONMENTS DEFINE-FILE-ENVIRONMENT
              *BREAK-ON-SIGNALS* HANDLER-CASE WITH-SIMPLE-RESTART RESTART-CASE RESTART-BIND COMPUTE-RESTARTS
              RESTART-NAME FIND-RESTART INVOKE-RESTART INVOKE-RESTART-INTERACTIVELY CONTINUE MUFFLE-WARNING
              INVOKE-DEBUGGER RESTART TYPE-ERROR TYPE-ERROR-DATUM PROGRAM-ERROR FILE-ERROR FILE-ERROR-PATHNAME
              DIVISION-BY-ZERO FLOATING-POINT-OVERFLOW FLOATING-POINT-UNDERFLOW ROW-MAJOR-AREF RECORD-FETCH
              RECORD-FFETCH RECORD-CREATE DEFINE-RECORD PACKAGE-PREFIX))

(IL:MAPC CL::FUTURE-CITIZENS-OF-XCL 'CL::DEFECT-FROM-IL-TO-XCL)

(CL::CHECK-ALL)
)
```

;; Arrange for the proper makefile environment

```
(IL:PUTPROPS IL:XCL-PACKAGE IL:FILETYPE IL:COMPILE-FILE)

(IL:PUTPROPS IL:XCL-PACKAGE IL:MAKEFILE-ENVIRONMENT (:READTABLE "INTERLISP" :PACKAGE (DEFPACKAGE "XCL" (:USE)))
)

(IL:PUTPROPS IL:XCL-PACKAGE IL:COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1988 1990))
```

FUNCTION INDEX

PROPERTY INDEX

VARIABLE INDEX