```
14-Aug-87 17:09:50 {QV}<JELLINEK>CONVERT>DEBUGGER-CONTEXT.;2
 File created:
  changes to:
                (IL:COMMANDS "unlex")
                (IL:FUNCTIONS OPEN-LEX-ENV INIT-DEBUGGER-CONTEXT LEX-EVAL-INPUT)
                (IL: VARS IL: DEBUGGER-CONTEXTCOMS)
previous date:
               10-Aug-87 13:19:47 {OV}<JELLINEK>TOOLS>LEX-TOOL.;1
 Read Table:
               XCL
    Package:
               XCL-USER
       Format:
                 XCCS
; Copyright (c) 1987 by Xerox Corporation. All rights reserved.
(IL:RPAQQ IL:DEBUGGER-CONTEXTCOMS (
;;; Debugger-Context -- fix the Xerox Lisp debugger so that you can work with lexically-defined functions, variables, blocks, and tag-bodies sensibly.
;;; Written out of frustration by Herb Jellinek, 13-Aug-87.
                                          (IL:FUNCTIONS INIT-DEBUGGER-CONTEXT LEX-DO-EVENT OPEN-LEX-ENV)
                                          (IL: VARIABLES XCL:: *ENVIRONMENT*)
                                          (IL:P (INIT-DEBUGGER-CONTEXT))
                                          (IL:COMMANDS "lex" "unlex")
                                          (IL:PROP IL:MAKEFILE-ENVIRONMENT IL:DEBUGGER-CONTEXT)))
;;; Debugger-Context -- fix the Xerox Lisp debugger so that you can work with lexically-defined functions, variables, blocks, and tag-bodies sensibly.
;;; Written out of frustration by Herb Jellinek, 13-Aug-87.
(DEFUN INIT-DEBUGGER-CONTEXT ()
   "Set things up for the DEBUGGER-CONTEXT hack"
   (UNDOABLY (SETF *PER-EXEC-VARIABLES*
                                                                         : cause *environment* to be bound to nil in each executive.
                     (ACONS 'XCL::*ENVIRONMENT* NIL *PER-EXEC-VARIABLES*)
                                                                         ; "advise" do-event to look at *environment* for its env.
           (UNLESS (FBOUNDP 'OLD-DO-EVENT)
                (SETF (SYMBOL-FUNCTION 'OLD-DO-EVENT) (SYMBOL-FUNCTION 'IL:DO-EVENT))
                (SETF (SYMBOL-FUNCTION 'IL:DO-EVENT)
                       (SYMBOL-FUNCTION 'LEX-DO-EVENT)))))
(DEFUN LEX-DO-EVENT (ORIGINAL-INPUT ENV &OPTIONAL (FN NIL FUNCTION-P))
   "Replacement for the executive's old DO-EVENT function."
   (IF FUNCTION-P
        (OLD-DO-EVENT ORIGINAL-INPUT (OR ENV XCL::*ENVIRONMENT*)
        (OLD-DO-EVENT ORIGINAL-INPUT (OR ENV XCL::*ENVIRONMENT*))))
(DEFUN OPEN-LEX-ENV ()
"Finds the 'current' lex env and makes this debugger instance use it"
   (LET ((FRAME-VARS (IL:STKARGS IL:LASTPOS)))
         (DECLARE (SPECIAL IL:LASTPOS))
         (DOLIST (VALUE FRAME-VARS (FORMAT T ";; ? found no lexical environment"))
             (IF (IL:ENVIRONMENT-P VALUE)
                  (PROGN (SETQ XCL::*ENVIRONMENT* VALUE)
(FORMAT T ";; set lexical environment")
                          (RETURN))))))
(DEFVAR XCL::*ENVIRONMENT* NIL)
(INIT-DEBUGGER-CONTEXT)
(DEFCOMMAND ("lex" :DEBUGGER) NIL "Sets the debugger's lexical environment to that of the selected frame"
   (OPEN-LEX-ENV)
   (VALUES))
(DEFCOMMAND ("unlex" :DEBUGGER) NIL "Unsets the lexical environment in the debugger"
   (SETQ XCL::*ENVIRONMENT* NIL)
(FORMAT T ";; unset lexical environment")
   (VALUES))
(IL:PUTPROPS IL:DEBUGGER-CONTEXT IL:MAKEFILE-ENVIRONMENT (:READTABLE "XCL" :PACKAGE "XCL-USER"))
(IL:PUTPROPS IL:DEBUGGER-CONTEXT IL:COPYRIGHT ("Xerox Corporation" 1987))
```


TATE DEDUCATE COMPANY	FUNCTION INDEX	ODDY ARV DW
INII-DEBUGGER-CONIEXI	LEX-DO-EVENT1	OPEN-LEX-ENV
	COMMAND INDEX	
"lex"1	"unlex"1	
	PROPERTY INDEX	
IL:DEBUGGER-CONTEXT1		
	VARIABLE INDEX	
XCL::*ENVIRONMENT*		