```
10-Mar-88 10:02:26 {ERIS}<SNOW>SUN>TEST>DO-TEST.;3
 File created:
  changes to:
                (FUNCTIONS XCL-USER::DO-ALL-TESTS)
                (VARS DO-TESTCOMS)
                (VARIABLES XCL-USER::*TEST-MODE* XCL-USER::*TEST-BATCH-RESULTS* XCL-USER::*TEST-FILE-PATTERN*)
                2-Mar-88 15:47:17 {ERIS}<SNOW>SUN>TEST>DO-TEST.;1
previous date:
 Read Table:
               XCL
    Package:
               INTERLISP
       Format:
                 XCCS
; Copyright (c) 1986, 1987, 1988 by Xerox Corporation. All rights reserved.
(RPAQQ DO-TESTCOMS
        ((VARIABLES XCL-USER::*ANY-ERRORS* XCL-USER::*TEST-CLEANUP-FORMS* XCL-USER::*TEST-COMPILE*
                 XCL-USER::*TEST-MODE* XCL-USER::*TEST-BATCH-RESULTS* XCL-USER::*TEST-FILE-PATTERN*
                 XCL-USER::*TEST-FILE-NAME*)
         (P (DEFPACKAGE "XCL-TEST" (:USE "LISP" "XCL")
                    (:IMPORT XCL-USER::DO-TEST-FILE XCL-USER::DO-ALL-TESTS XCL-USER::DO-TEST
                            XCL-USER::DO-TEST-GROUP XCL-USER::CL-READFILE XCL-USER::EXPECT-ERRORS
                            XCL-USER::TEST-DEFUN XCL-USER::TEST-DEFMACRO XCL-USER::TEST-SETQ XCL-USER::*TEST-MODE*
                            XCL-USER::*TEST-COMPILE* XCL-USER::*TEST-BATCH-RESULTS* XCL-USER::*TEST-FILE-PATTERN*
                            XCL-USER::*TEST-FILE-NAME*)))
         (FUNCTIONS XCL-USER::DO-TEST XCL-USER::DO-TEST-GROUP XCL-USER::TEST-DEFMACRO XCL-USER::TEST-DEFUN
                 XCL-USER::TEST-SETQ XCL-USER::WITHOUT-BATCH-MODE-ERRORS XCL-USER::EXPECT-ERRORS
                 XCL-USER::DO-ALL-TESTS XCL-USER::CURRENT-FILE-NAME XCL-USER::CL-READFILE XCL-USER::DO-TEST-FILE
                 XCL-USER::DO-TEST-LIST)
               (MAKEFILE-ENVIRONMENT FILETYPE)
                DO-TEST)))
(CL:DEFVAR XCL-USER::*ANY-ERRORS* NIL)
(CL:DEFVAR XCL-USER::*TEST-CLEANUP-FORMS* NIL)
(CL:DEFVAR XCL-USER::*TEST-COMPILE* NIL)
(CL:DEFVAR XCL-USER::*TEST-MODE* :INTERACTIVE)
(CL:DEFVAR XCL-USER::*TEST-BATCH-RESULTS* "{dsk}</python0/lisp/test/auto/language>test-results")
(CL: DEFVAR XCL-USER::*TEST-FILE-PATTERN*
   '("{dsk}</python0/lisp/test/auto/language/4>*.TEST" "{dsk}</python0/lisp/test/auto/language/5>*.TEST" "{dsk}</python0/lisp/test/auto/language/7>*.TEST" "{dsk}</python0/lisp/test/auto/language/7>*.TEST" "{dsk}</python0/lisp/test/auto/language/9>*.TEST" "{dsk}</python0/lisp/test/auto/language/9>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/10>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/11>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/12>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/13>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/14>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/15>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/16>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/17>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/18>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/19>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/20>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/21>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/22>*.TEST" "{dsk}</python0/lisp/test/auto/language/23>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/24>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/25>*.TEST"
            "{dsk}</python0/lisp/test/auto/language/ar>*.TEST"
"{dsk}</python0/lisp/test/auto/language/other>*.TEST"))
(CL:DEFVAR XCL-USER::*TEST-FILE-NAME* "unknown")
(DEFPACKAGE "XCL-TEST" (:USE "LISP" "XCL")
        (:IMPORT XCL-USER::DO-TEST-FILE XCL-USER::DO-ALL-TESTS XCL-USER::DO-TEST XCL-USER::DO-TEST-GROUP
               XCL-USER::CL-READFILE XCL-USER::EXPECT-ERRORS XCL-USER::TEST-DEFUN XCL-USER::TEST-DEFMACRO XCL-USER::TEST-SETQ XCL-USER::*TEST-MODE* XCL-USER::*TEST-COMPILE* XCL-USER::*TEST-BATCH-RESULTS*
               XCL-USER::*TEST-FILE-PATTERN* XCL-USER::*TEST-FILE-NAME*))
(DEFMACRO XCL-USER::DO-TEST (NAME-AND-OPTIONS &BODY BODY)
   (LET ((NAME NIL)
          (OPTIONS NIL))
         (COND
            ((CL:CONSP NAME-AND-OPTIONS)
              (CL:SETQ NAME (CAR NAME-AND-OPTIONS))
```

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(CL:SETQ OPTIONS (CDR NAME-AND-OPTIONS)))
           (T (CL:SETQ NAME NAME-AND-OPTIONS)))
        (CL:IF (OR (EQ XCL-USER::*TEST-MODE*:INTERACTIVE)
(EQ XCL-USER::*TEST-MODE*:BATCH-VERBOSE))
                (CL:FORMAT *ERROR-OUTPUT* "Testing... ~S~%" NAME))
        '(NOT (CL:WHEN (NULL (XCL-USER::WITHOUT-BATCH-MODE-ERRORS ,@BODY))
                   (CL:FORMAT *ERROR-OUTPUT* "Test \"~A\" failed in file \"~A\"~%" ',NAME (
                                                                                           XCL-USER::CURRENT-FILE-NAME
                                                                                                ))
                   (SETQ XCL-USER::*ANY-ERRORS* T)))))
(DEFMACRO XCL-USER::DO-TEST-GROUP (NAME-AND-OPTIONS &BODY BODY)
   (LET ((NAME NIL)
         (OPTIONS NIL))
        (COND
           ((CL:CONSP NAME-AND-OPTIONS)
             (CL:SETO NAME (CAR NAME-AND-OPTIONS))
             (CL:SETQ OPTIONS (CDR NAME-AND-OPTIONS)))
           (T (CL:SETQ NAME NAME-AND-OPTIONS)))
        ;; Hack: find :BEFORE and :AFTER clauses in the body and move them out
        (CL:LOOP (CL:IF (AND (CL:SYMBOLP (CAR BODY))
                               (OR (EQ (CAR BODY)
                                       :BEFORE)
                                   (EQ (CAR BODY)
                                       :AFTER)))
                      (PROGN (SETQ OPTIONS (APPEND OPTIONS (LIST (CAR BODY)
                                                                     (CADR BODY))))
                              (SETQ BODY (CDDR BODY)))
                      (RETURN NIL)))
        '(LET ((XCL-USER::*TEST-CLEANUP-FORMS* NIL))
               (CL:BLOCK , NAME
                  (CL:FORMAT *ERROR-OUTPUT* "Testing... ~S~%" NAME))
                   , (LET ((BEFORE (IGNORE-ERRORS (CL:GETF OPTIONS :BEFORE))))
                          (CL: IF BEFORE
                              '(CL:WHEN (NULL (XCL-USER::WITHOUT-BATCH-MODE-ERRORS , BEFORE T))
                                   (CL:FORMAT *ERROR-OUTPUT* ":BEFORE forms for test \"~A\" in file ~S failed."
                                           (XCL-USER::CURRENT-FILE-NAME))
                                   (SETQ XCL-USER::*ANY-ERRORS* T)
                                   (CL:RETURN-FROM , NAME))))
                   ,@(|for| B |in| BODY |join| (|if| (AND (CL:CONSP B)
                                                     (EQ (CAR B)
'XCL-USER::DO-TEST))
                                               |then| (LIST B)
                                             |else| (CL:FORMAT *ERROR-OUTPUT* "Non DO-TEST form in ~S in ~S~%~S~%"
                                                          NAME (XCL-USER::CURRENT-FILE-NAME)
                                                          B)))
                   ,(LET ((AFTER (IGNORE-ERRORS (CL:GETF OPTIONS :AFTER))))
                          (CL:TF AFTER
                              (CL:WHEN (NULL (XCL-USER::WITHOUT-BATCH-MODE-ERRORS ,AFTER T))
(CL:FORMAT *ERROR-OUTPUT* ":AFTER forms for test \"~A\" in file ~S failed."
                                           '.NAME
                                           (XCL-USER::CURRENT-FILE-NAME))
               (CL:SETQ XCL-USER::*ANY-ERRORS* T)))))
(CL:EVAL (CONS 'PROGN XCL-USER::*TEST-CLEANUP-FORMS*))
              NIL)))
(DEFMACRO XCL-USER::TEST-DEFMACRO (NAME &REST STUFF)
   '', NAME))
                                    (LIST 'QUOTE (CL:SYMBOL-FUNCTION (CL:MACRO-FUNCTION ',NAME))))
                           XCL-USER::*TEST-CLEANUP-FORMS*)
                (CL:ERROR "Please don't redefine ~A in a test form" ',NAME))
(CL:PUSH (LIST 'REMPROP '',NAME ''MACRO-FN)
                       XCL-USER::*TEST-CLEANUP-FORMS*))
            (DEFMACRO , NAME , @STUFF)))
(DEFMACRO XCL-USER::TEST-DEFUN (NAME &REST STUFF)
   (PROGN (CL:IF (CL:FBOUNDP ', NAME)
                (CL:IF (OR (CL:MACRO-FUNCTION ',NAME)
(CL:SPECIAL-FORM-P ',NAME))
                    (CL:ERROR "Please don't redefine ~A in a test form" ', NAME)
(CL:PUSH (LIST 'CL:SETF (LIST 'CL:SYMBOL-FUNCTION '', NAME)
                                    (LIST 'QUOTE (CL:SYMBOL-FUNCTION ', NAME)))
                           XCL-USER::*TEST-CLEANUP-FORMS*))
                (CL:PUSH (LIST 'CL:FMAKUNBOUND '', NAME)
                       XCL-USER::*TEST-CLEANUP-FORMS*))
           (CL:DEFUN ,NAME ,@STUFF)))
```

```
(DEFMACRO XCL-USER::TEST-SETQ (&REST XCL-USER::STUFF)
   (LET (XCL-USER::UNBINDLIST)
         (CL:DO ((XCL-USER::X XCL-USER::STUFF (CDDR XCL-USER::X)))
                 ((NULL XCL-USER::X))
             (CL:PUSH '(CL:IF (BOUNDP', (CAR XCL-USER::X))
                             (CL:PUSH (LIST 'CL:SETQ ', (CAR XCL-USER::X)
                                              (LIST 'QUOTE (CL:SYMBOL-VALUE ', (CAR XCL-USER::X))))
                                    XCL-USER::*TEST-CLEANUP-FORMS*)
                             (CL:PUSH (LIST 'CL:MAKUNBOUND '', (CAR XCL-USER::X))
                                    XCL-USER::*TEST-CLEANUP-FORMS*))
                     XCL-USER::UNBINDLIST))
         '(PROGN , @XCL-USER::UNBINDLIST (CL:SETO , @XCL-USER::STUFF))))
(DEFMACRO XCL-USER::WITHOUT-BATCH-MODE-ERRORS (&BODY BODY)
   (COND
      ((EQ XCL-USER::*TEST-MODE* :INTERACTIVE)
      '(PROGN , @BODY))
(T '(IGNORE-ERRORS , @BODY))))
(DEFMACRO XCL-USER::EXPECT-ERRORS (ERROR-TYPES &REST FORMS)
   '(CONDITION-CASE (PROGN ,@FORMS NIL)
(,ERROR-TYPES (CONDITION)
                    (CL: VALUES T CONDITION))))
(CL:DEFUN XCL-USER::DO-ALL-TESTS (&KEY (XCL-USER::RESULTS XCL-USER::*TEST-BATCH-RESULTS*)
                                                  (XCL-USER::PATTERNS (CL:IF (CL:CONSP XCL-USER::*TEST-FILE-PATTERN*)
                                                                            XCL-USER::*TEST-FILE-PATTERN*
                                                                             (LIST XCL-USER::*TEST-FILE-PATTERN*)))
                                                 (XCL-USER::SYSOUT-TYPE NIL)
                                                 (XCL-USER::RESUME NIL))
   (LET ((NO-PROBLEMS T)
          (*DEFAULT-PATHNAME-DEFAULTS* (PATHNAME "{dsk}</python0/lisp/test/auto/language>"))
          (*ERROR-OUTPUT* (CL:IF (EQ XCL-USER::RESULTS T)
                                *ERROR-OUTPUT*
                                (OPEN XCL-USER::RESULTS :DIRECTION :OUTPUT :IF-EXISTS (CL:IF XCL-USER::RESUME
                                                                                                  :NEW-VERSION)))))
         (CL:UNWIND-PROTECT
             (PROGN (CL:IF (NOT XCL-USER::RESUME)
                         (PROGN (CL:FORMAT *ERROR-OUTPUT* ";;; Test results for sysout of ~A~%" MAKESYSDATE) (CL:IF XCL-USER::SYSOUT-TYPE (CL:FORMAT *ERROR-OUTPUT* ";;; Sysout type is ~A~%"
                                                                         XCL-USER::SYSOUT-TYPE))
                                  (CL:IF XCL-USER::*TEST-COMPILE* (CL:FORMAT *ERROR-OUTPUT*
                                                                                                  ";;; Tests are being
                                                                             compiled~%"))
                                 (CL:FORMAT *ERROR-OUTPUT* ";;; Tests run on ~A~%" (DATE))
(CL:FORMAT *ERROR-OUTPUT* ";;; Running tests from ~A~2%" XCL-USER::PATTERNS)
(CL:SETQ XCL-USER::*ALL-FILES-REMAINING* (FOR XCL-USER::DP IN XCL-USER::PATTERNS)
                                                                                   JOIN (DIRECTORY XCL-USER::DP))))
                         (CL:FORMAT *ERROR-OUTPUT* ";;; Resuming after dying on file ~S~%" (CL:POP
                                                                                           XCL-USER::*ALL-FILES-REMAINING*
                                                                                                          )))
                     (|while| XCL-USER::*ALL-FILES-REMAINING* |do| (CL:FORMAT *STANDARD-OUTPUT* "Testing ~s..."
                                                                              (CAR XCL-USER::*ALL-FILES-REMAINING*))
                                                                      (CL:SETQ NO-PROBLEMS (AND (XCL-USER::DO-TEST-FILE
                                                                                                    (CAR
                                                                                           XCL-USER::*ALL-FILES-REMAINING*
                                                                                                         ))
                                                                                                   NO-PROBLEMS))
                                                                      (CL:FORMAT *STANDARD-OUTPUT* "done~%")
                                                                      (CL:POP XCL-USER::*ALL-FILES-REMAINING*))
                     (CL:FORMAT *ERROR-OUTPUT* "(END-OF-TESTS)"))
             (CL:UNLESS (EQ XCL-USER::RESULTS T)
                     (CL:CLOSE *ERROR-OUTPUT*)))
        NO-PROBLEMS))
(CL: DEFUN XCL-USER::CURRENT-FILE-NAME ()
   XCL-USER::*TEST-FILE-NAME*)
(CL:DEFUN XCL-USER::CL-READFILE (TEST-FILE &OPTIONAL (*READTABLE* CMLRDTBL)
                                                 (ENDTOKEN "STOP"))
   (LET ((XCL-USER::TRUE-NAME (CL:PROBE-FILE TEST-FILE)))
         (CL:IF XCL-USER::TRUE-NAME
             (LET (TEM (*PACKAGE* (CL:FIND-PACKAGE 'XCL-USER::XCL-TEST))
    (*FEATURES* (CONS :NO-STACK-OVERFLOW *FEATURES*)))
                   (CL:SETQ XCL-USER::*TEST-FILE-NAME* (CL:NAMESTRING XCL-USER::TRUE-NAME))
                   (CL:WITH-OPEN-FILE (TEST-FILE TEST-FILE :DIRECTION :INPUT)
                           (UNTIL (OR (NULL (IGNORE-ERRORS (CL:SETQ TEM (CL:READ TEST-FILE))))
                                       (AND (CL:SYMBOLP TEM)
(CL:STRING= TEM ENDTOKEN)))
                              COLLECT TEM)))
             (PROGN (CL:FORMAT *ERROR-OUTPUT* "~%Couldn't find file ~A~%" TEST-FILE)
```

NIL))))

```
(CL:DEFUN XCL-USER::DO-TEST-FILE (FILENAME)
   (LET* ((*PACKAGE* (CL:FIND-PACKAGE 'XCL-USER::XCL-TEST))
           (XCL-USER::*TEST-FILE-NAME* NIL)
           (TEST-FORMS (XCL-USER::CL-READFILE FILENAME CMLRDTBL))
          (XCL-USER::*ANY-ERRORS* NIL))
(XCL-USER::DO-TEST-LIST TEST-FORMS)
          (|if| XCL-USER::*ANY-ERRORS*
              |then| (CL:TERPRI *ERROR-OUTPUT*))
          (NOT XCL-USER::*ANY-ERRORS*)))
(CL:DEFUN XCL-USER::DO-TEST-LIST (XCL-USER::TEST-FORMS &OPTIONAL XCL-USER::OPTIONS XCL-USER::NAME)
   (LET
    ((DFNFLG NIL))
    (DECLARE (CL:SPECIAL DFNFLG))
    (|if| (NULL XCL-USER::TEST-FORMS)
        |then| (CL:FORMAT *ERROR-OUTPUT* "~%(Trouble reading ~A)~%" (XCL-USER::CURRENT-FILE-NAME))
               (CL:SETQ XCL-USER::*ANY-ERRORS* T)
      |else| (|for| XCL-USER::FORM |in| XCL-USER::TEST-FORMS
               |do| (BLOCK 0)
                    (CL:IF (AND (CL:CONSP XCL-USER::FORM)
                                 (OR (EQ (CAR XCL-USER::FORM)
'XCL-USER::DO-TEST)
                                      (EQ (CAR XCL-USER::FORM)
                                          'XCL-USER::DO-TEST-GROUP)))
                        (CL:IF XCL-USER::*TEST-COMPILE*
                             (CL:BLOCK XCL-USER::COMPILER-PUNT
                                 (LET ((XCL-USER::COMPILED-FORM (CL:IF (EQ XCL-USER::*TEST-MODE* :INTERACTIVE) (CL:COMPILE NIL `(CL:LAMBDA NIL
                                                                                                  ,XCL-USER::FORM))
                                                                        (IGNORE-ERRORS
                                                                         (CL:COMPILE NIL '(CL:LAMBDA NIL
                                                                                                   ,XCL-USER::FORM))))))
                                       (CL:IF (NULL (CL:COMPILED-FUNCTION-P XCL-USER::COMPILED-FORM))
                                           (LET ((*PRINT-LEVEL* 3)
                                                  (*PRINT-LENGTH* 3))
                                                 (CL:FORMAT *ERROR-OUTPUT* "Compilation of this form in file ~S
                                                        failed:~%
                                                                     ~S~%" (XCL-USER::CURRENT-FILE-NAME)
                                                        XCL-USER::FORM)
                                                (CL:RETURN-FROM XCL-USER::COMPILER-PUNT))
                                           (CL:IF (NULL (CL:IF (EQ XCL-USER::*TEST-MODE* :INTERACTIVE)
                                                              (PROGN (CL:FUNCALL XCL-USER::COMPILED-FORM)
                                                                     T)
                                                              (IGNORE-ERRORS (PROGN (CL:FUNCALL
                                                                                             XCL-USER::COMPILED-FORM)
                                                                                      T))))
                                                (LET ((*PRINT-LEVEL* 3)
                                                      (*PRINT-LENGTH* 3))
                                                     (CL:FORMAT *ERROR-OUTPUT* "Compiled code failed for this form in file ~S :~%~S~%" (XCL-USER::CURRENT-FILE-NAME)
                                                            XCL-USER::FORM)))))
                             (CL:EVAL XCL-USER::FORM))
                        (CL:FORMAT *ERROR-OUTPUT* "Non DO-TEST form at top level in ^{\sim}S^{\sim}S^{\sim}S^{\circ}" (
                                                                                              XCL-USER::CURRENT-FILE-NAME
                               XCL-USER::FORM))))))
(PUTPROPS DO-TEST FILETYPE : COMPILE-FILE)
(PUTPROPS DO-TEST COPYRIGHT ("Xerox Corporation" 1986 1987 1988))
```


	FUNCTION IN	IDEX	
XCL-USER::CL-READFILE	XCL-USER::DO-ALL-TEST XCL-USER::DO-TEST-FII		XCL-USER::DO-TEST-LIST4
	MACRO INI	DEX	
XCL-USER::DO-TEST XCL-USER::DO-TEST-GROUP XCL-USER::EXPECT-ERRORS XCL-USER::TEST-DEFMACRO	2 X	CL-USER::TEST-SE	FUN
	VARIABLE IN	IDEX	
XCL-USER::*ANY-ERRORS*	XCL-USER::*TEST-COMPI XCL-USER::*TEST-FILE- XCL-USER::*TEST-FILE-	-NAME*1	XCL-USER::*TEST-MODE*1 DO-TESTCOMS1
	PROPERTY II	NDEX	
DO-TEST4			