```
21-Aug-85 16:52:08 {DSK}<LISPFILES>TESTER>SOURCES>TESTER.;35
 File created:
               (FNS TEST.EXECUTE-TESTS TEST.RELEASE-LOCK-COMMAND TEST.RELEASE-LOCK-ON-SELECTED-TESTS-COMMAND
  changes to:
                    TEST.OBTAIN-LOCK-ON-SELECTED-TESTS-COMMAND TEST.OBTAIN-LOCK-COMMAND TEST.CLEANUP-AFTER-TEST
                    TEST.DOCOMMAND TEST.EVAL-BEFORE-TEST TEST.EVALUATE-OUTCOME TEST.EVALUATE-TESTED-EXPR TEST.PERFORM-TEST TEST.PRINT-ON-TRACE-FILE TEST.PRINT-TRACE-INFO
                    TEST.EXECUTE-SELECTED-TESTS-COMMAND TEST.DETACH-TESTS-MENU TEST.GET-TEST
                    TEST.GET-EXECUTION-SPECS TEST.GET-STRONG-LINK-CLOSURE TEST.UPDATE-EXECUTION-SPEC
                    TEST.SET-TESTS-BUFFER-SIZE TEST.COMPUTE-AVERAGE-TEST-SIZE TEST.OPENFILE-OR-WAIT
                    TEST.TEST-FAULT TEST.TOPOLOGICAL-ORDER)
               (VARS TESTERCOMS)
              20-Aug-85 13:50:30 {DSK}<LISPFILES>TESTER>SOURCES>TESTER.;31
previous date:
 Read Table:
              OLD-INTERLISP-FILE
    Package:
              INTERLISP
      Format:
                XCCS
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(RPAQQ TESTERCOMS
       ((FNS SHOULDNT TEST.ADD-CONCEPT-AND-SUBCONCEPTS-TO-CONCEPT-LIST TEST.ADD-CONCEPT-COMMAND
              TEST.ADD-CONCEPT-SPACE-TO-CONCEPT-SPACES TEST.ADD-ITEM-TO-BACKGROUND-MENU TEST.ADD-LINK-COMMAND
              TEST.ADD-NEW-FIELD-TO-TEST-RECORD TEST.ADD-TEST TEST.ADD-TEST-COMMAND TEST.ALL-COMBINATIONS
              TEST.ATTACH-TESTS-MENU TEST.BROWSE-CONCEPT-SPACE-COMMAND TEST.BROWSE-SUBTREE-COMMAND
              TEST.CANONICAL-CONCEPT-SPACE-FILE-NAME TEST.CHANGE-DEPTH-COMMAND TEST.CLEANUP-AFTER-TEST
             TEST.COLLECT-ALL-TESTS TEST.COLLECT-SUBCONCEPTS-CLOSURE TEST.COMPUTE-AVERAGE-TEST-SIZE
              TEST.COPY-SUBTREE-COMMAND TEST.COPYBUTTONEVENTFN TEST.CREATE-CONCEPT-SPACE-GRAPH
             TEST.CREATE-CONCEPT-WINDOW-MENU TEST.CREATE-GRAPH-NODES TEST.CREATE-ICON-WINDOW
              TEST.CREATE-INTERRUPT-MENU TEST.CREATE-NEW-CONCEPT-SPACE TEST.CREATE-NEW-TEST TEST.DELETE-CONCEPT
              TEST.DELETE-CONCEPT-COMMAND TEST.DELETE-LINK-COMMAND TEST.DELETE-TEST-COMMAND
             TEST.DETACH-TESTS-MENU TEST.DISPLAY-CONCEPT-GRAPH TEST.DISPLAY-CONCEPT-SPACE-BROWSER TEST.DOCOMMAND TEST.EDIT-TEST TEST.EDIT-TEST.EVAL-BEFORE-TEST TEST.EVALUATE-OUTCOME
              TEST. EVALUATE-TESTED-EXPR TEST. EXECUTE-SELECTED-TESTS-COMMAND TEST. EXECUTE-TESTS
             TEST.FIND-MENU-ITEM TEST.GENERATE-COMPARE-FUNCTION TEST.GENERATE-INPUT
              TEST.GET-AND-INCREASE-NEXT-TESTID TEST.GET-CONCEPT TEST.GET-CONCEPT-SPACE
              TEST.GET-DEFAULT-FILED-VALUE TEST.GET-EXECUTION-SPECS TEST.GET-FIELD-VALUE TEST.GET-LOCKING-USERS
             TEST.GET-NEXT-AVAILABLE-TESTID TEST.GET-STRONG-LINK-CLOSURE TEST.GET-TEST TEST.GET-TEST-SELECTION
             TEST.HARDCOPY-ALL-TESTS-COMMAND TEST.HARDCOPY-ONE-TEST TEST.HARDCOPY-SELECTED-TESTS-COMMAND
              TEST.HARDCOPY-TESTS TEST.HARDCOPY-TRACE-FILE TEST.INIT TEST.INSPECTW.ICONFN
              TEST.INSPECTW.VALUECOMMANDFN TEST.KILL-PROCESS TEST.LEFT-BUTTON-SELECTION TEST.LOAD-CONCEPT-SPACE
             TEST.LOAD-CONCEPT-SPACE-COMMAND TEST.LOCAL-EVAL-FORM TEST.MAKE-BOUND TEST.MARK-AS-CHANGED TEST.OBTAIN-DATABASE-WRITE-LOCK TEST.OBTAIN-LOCK-COMMAND TEST.OBTAIN-LOCK-ON-SELECTED-TESTS-COMMAND
              TEST.OPENFILE-OR-WAIT TEST.PERFORM-TEST TEST.PERFORM-TIMED-EVALUATION
             TEST.POP-UP-CONCEPT-SPACES-MENU TEST.POP-UP-TESTS-MENU TEST.PRINT-ON-TRACE-FILE
             TEST.PRINT-TEST-OUTCOME TEST.PRINT-TRACE-INFO TEST.PROMPT-WINDOW TEST.RELEASE-DATABASE-WRITE-LOCK
              TEST.RELEASE-LOCK-COMMAND TEST.RELEASE-LOCK-ON-SELECTED-TESTS-COMMAND TEST.REMOVE-SUBCONCEPT-LINK
              TEST.REMOVE-SUPERCONCEPT-LINK TEST.REPLACE-INSEPCTW-VALUECOMMANDFN TEST.SEND-RELEASE-REQUESTS
             TEST.SET-DEFAULT-FIELD-VALUE TEST.SET-TESTS-BUFFER-SIZE TEST.SETIFY TEST.SHADE-TEST
              TEST.STORE-CHANGED-TESTS TEST.STORE-CONCEPT-SPACE TEST.STORE-CONCEPT-SPACE-COMMAND TEST.STORE-TEST
              TEST.SWITCH-DISPLAY-MODE-COMMAND TEST.TEST-FAULT TEST.TEST-NUMBER-TO-FILE-NAME
              TEST.TEST-SELECTED-ON-TEST-MENU-FN TEST.TEST-SINGLE-TIME TEST.TOPOLOGICAL-ORDER TEST.UNION-LIST
              TEST.UNMARK-AS-CHANGED TEST.UPDATE-COMMAND TEST.UPDATE-EXECUTION-SPEC TEST.WAIT-FOR-SELECTION)
        (VARS (TEST.EXECUTION-SPECS-EVENT (CREATE.EVENT "EXECUTION-SELECTION-ENDED-EVENT"))
               (TEST.GLOBAL-CONCEPT-NODE-SELECTED-EVENT (CREATE.EVENT "CONCEPT-NODE-SELECTED-EVENT")))
        (BITMAPS TEST.CONCEPT-WINDOW-ICON TEST.CONCEPT-WINDOW-ICON-MASK TEST.INSPECTW.ICON TEST.INSPECTW.MASK)))
(DEFINEQ
SHOULDNT
  [LAMBDA (MESS)
                                                                     (* sm "10-Jul-85 13:59")
    (ERRORX (LIST 1000 MESS])
(TEST.ADD-CONCEPT-AND-SUBCONCEPTS-TO-CONCEPT-LIST
  [LAMBDA (NEW-CONCEPT-NAME SOURCE-CONCEPT-LIST TARGET-CONCEPT-LIST)
                                                                     (* sm "19-Aug-85 14:49")
    (PROG (LAST-CDR NEW-CONCEPT)
           (If (NOT (FASSOC NEW-CONCEPT-NAME TARGET-CONCEPT-LIST))
then (SETQ NEW-CONCEPT (COPY (FASSOC NEW-CONCEPT-NAME SOURCE-CONCEPT-LIST)))
                    (SETQ LAST-CDR (LAST TARGET-CONCEPT-LIST))
                    (RPLACD LAST-CDR (LIST NEW-CONCEPT))
                    (RETURN (CONS NEW-CONCEPT-NAME (for C in (fetch SUBCONCEPTS of NEW-CONCEPT
                                                        join (TEST.ADD-CONCEPT-AND-SUBCONCEPTS-TO-CONCEPT-LIST
                                                             C SOURCE-CONCEPT-LIST TARGET-CONCEPT-LIST])
(TEST.ADD-CONCEPT-COMMAND
                                                                     (* sm "19-Aug-85 09:46")
  [LAMBDA (WINDOW)
    (PROG
          (PARENT-NODE NEW-CONCEPT LAST-CDR)
           (SETQ PARENT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select parent node"))
           [SETQ NEW-CONCEPT (MKATOM (PROMPTFORWORD "Type name for new concept:" NIL NIL (TEST.PROMPT-WINDOW
                                                                                               WINDOW)
```

NIL (QUOTE TTY]

```
[SETQ LAST-CDR (LAST (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS]
          [RPLACD LAST-CDR (LIST (create CONCEPT
                                           CONCEPTNAME _ NEW-CONCEPT
                                                            (LIST (fetch NODEID of PARENT-NODE]
                                           SUPERCONCEPTS
           (pushnew [fetch subconcepts of (TEST.GET-CONCEPT PARENT-NODE (WINDOWPROP WINDOW (QUOTE
                                                                                                   TEST.LIST-OF-CONCEPTS
                                                                                                         1
           (TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH WINDOW)
(TEST.ADD-CONCEPT-SPACE-TO-CONCEPT-SPACES
  [LAMBDA (CONCEPTSPACE)
                                                                      (* sm "16-Aug-85 17:13")
    (if (NOT (BOUNDP (QUOTE TEST.CONCEPT-SPACES)))
    then (SETQ TEST.CONCEPT-SPACES NIL))
(SETQ TEST.CONCEPT-SPACES (REMOVE (TEST.GET-CONCEPT-SPACE (fetch CONCEPTSPACENAME of CONCEPTSPACE))
                                       TEST.CONCEPT-SPACES))
    (SETQ TEST.CONCEPT-SPACES (CONS CONCEPTSPACE TEST.CONCEPT-SPACES))
    (fetch CONCEPTSPACENAME of CONCEPTSPACE)
(TEST.ADD-ITEM-TO-BACKGROUND-MENU
  [LAMBDA (LABEL COMMAND MESSAGE SUBITEMLIST)
                                                                      (* edited: " 3-Jun-85 15:59")
    (SETQ BackgroundMenuCommands (REMOVE (SASSOC LABEL BackgroundMenuCommands)
                                           BackgroundMenuCommands))
    (NCONC1 BackgroundMenuCommands (LIST LABEL COMMAND MESSAGE SUBITEMLIST))
    (SETQ BackgroundMenu NIL])
(TEST.ADD-LINK-COMMAND
  [LAMBDA (WINDOW)
                                                                      (* sm "19-Aug-85 09:46")
    (PROG (SUPERCONCEPT-NODE SUBCONCEPT-NODE CONCEPT-LIST)
          (SETQ CONCEPT-LIST (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS)))
(SETQ SUPERCONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select super concept"))
           (SETQ SUBCONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select sub concept"))
           (pushnew (fetch subconcepts of (TEST.GET-CONCEPT superconcept-node concept-list))
                  (fetch NODEID of SUBCONCEPT-NODE)
           (pushnew (fetch superconcepts of (TEST.GET-CONCEPT subconcept-node concept-list))
          (fetch nodeid of superconcept-node))
(TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH window)
(TEST.ADD-NEW-FIELD-TO-TEST-RECORD
  [LAMBDA (NEW-FIELD DEFAULT-VALUE)
                                                                      (* sm "23-Jul-85 16:28")
    (PROG
          (OLD-DEC)
           (if (NOT (TEST.OBTAIN-DATABASE-WRITE-LOCK (QUOTE DATABASE)))
               then (RINGBELLS)
                    (PROMPTPRINT "Can not obtain lock on the data base.")
                    (if (MENU (create MENU
                                     ITEMS _ (QUOTE (("Send release requests" T)
                                                       ("Don't send requests" NIL)))
                                     MENUFONT
                                                BIGFONT))
                        then (TEST.SEND-RELEASE-REQUESTS (QUOTE DATABASE)))
            else [SETQ OLD-DEC (COPY (RECLOOK (QUOTE TEST]
                 (if (FMEMB NEW-FIELD (CADDR OLD-DEC))
                     then (PRINTOUT T T NEW-FIELD " IS ALREADY A FIELD IN TEST RECORD. ")
                           (RETURN NIL))
                 (NCONC1 (CADDR OLD-DEC)
                         NEW-FIELD)
                 (if (AND TEST.LIST-OF-MODIFIED-TESTS (MENU (create MENU
                                                                       ITEMS _ (QUOTE (("Store current changes first"
                                                                                        ("Ignore current changes."
                                                                                         NIL)))
                                                                       MENUFONT _ BIGFONT)))
                     then (TEST.STORE-CHANGED-TESTS))
                 (EVAL OLD-DEC)
                  (SETQ TEST.LIST-OF-TESTS NIL)
                 (for Test from 1 to (SUB1 (TEST.GET-NEXT-AVAILABLE-TESTID)) do (SETQ CURRENT-TEST (TEST.GET-TEST
                                                                                     (NCONC1 TEST DEFAULT-VALUE)
                                                                                    (TEST.STORE-TEST TEST)
(PRINTOUT T "..." TEST))
                 (SET (PACK* (QUOTE TEST.DEFAULT.)
                              NEW-FIELD)
                      DEFAULT-VALUE])
(TEST.ADD-TEST
  [LAMBDA (TEST-RECORD)
                                                                       sm "22-Jul-85 14:52")
    (replace TESTID of TEST-RECORD with (TEST.GET-AND-INCREASE-NEXT-TESTID))
    (push TEST.LIST-OF-TESTS TEST-RECORD)
(fetch TESTID of TEST-RECORD])
```

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(TEST.ADD-TEST-COMMAND
  [LAMBDA (WINDOW)
                                                                   (* sm "19-Aug-85 15:38")
    (PROG (CONCEPT-NODE CONCEPT-LIST TEST-NUMBER TESTS)
          (SETQ CONCEPT-LIST (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS)))
          (SETQ CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select the concept to which the test should be
                                     added"))
          (PRINTOUT (TEST.PROMPT-WINDOW)
          [SETQ TESTS (MKLIST (CAR (TTYINEDIT NIL (TEST.PROMPT-WINDOW) WINDOW)
                                           NIL "Enter a test id or a list of test
          (for test in tests when (fixp test) do (pushnew (fetch tests of (TEST.GET-CONCEPT concept-node
                                                                                  CONCEPT-LIST))
                                                         TEST))
          (if (WINDOWPROP WINDOW (QUOTE TEST.DISPLAY-
              then (TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH CONCEPT-LIST T)
                          WINDOW1)
(TEST.ALL-COMBINATIONS
  [LAMBDA (SET-OF-SETS)
(if (NULL SET-OF-SETS)
                                                                   (* sm " 9-Jul-85 17:00")
        then (LIST NIL)
      else (for element in (car set-of-sets) join (for combination in (TEST.ALL-COMBINATIONS (cdr set-of-sets))
                                                   collect (CONS ELEMENT COMBINATION])
(TEST.ATTACH-TESTS-MENU
                                                                   (* sm "24-Jul-85 13:40")
  [LAMBDA (WINDOW TEST-LIST)
    (PROG (MENU-WINDOW)
          (SETQ MENU-WINDOW (ATTACHMENU (create MENU
                                                ITEMS
                                                        TEST-LIST
                                                WHENSELECTEDFN _ (QUOTE TEST.TEST-SELECTED-ON-TEST-MENU-FN)
                                                MENUROWS _ [ADD1 (IQUOTIENT (FLENGTH TEST-LIST)
                                                                          (MAX 1 (IQUOTIENT (CAR (WINDOWSIZE WINDOW
                                                                                        301
                                                MENUFONT _ BIGFONT
                                                CENTERFLG _ T)
                                    WINDOW
                                    (if (GREATERP (IPLUS (fetch BOTTOM of (WINDOWREGION WINDOW))
                                                         (IQUOTIENT (CDR (WINDOWSIZE WINDOW))
                                                                2))
                                               (IQUOTIENT SCREENHEIGHT 2))
                                        then (QUOTE BOTTOM)
                                      else (QUOTE TOP))
                                    (QUOTE JUSTIFY)))
          (WINDOWPROP WINDOW (QUOTE TEST. TESTS-MENU-WINDOW)
                 MENU-WINDOW)
          (WINDOWPROP MENU-WINDOW (QUOTE TEST.DETACH)
                 T)
          (RETURN MENU-WINDOW])
(TEST.BROWSE-CONCEPT-SPACE-COMMAND
                                                                   (* sm "19-Aug-85 10:00")
  [LAMBDA NIL
    (PROG (CONCEPT-SPACE-NAME CONCEPT-SPACE)
          (if (NULL TEST.CONCEPT-SPACES)
              then (RETURN NIL))
          (if (GREATERP (LENGTH TEST.CONCEPT-SPACES)
                    1)
              then (SETQ CONCEPT-SPACE-NAME (TEST.POP-UP-CONCEPT-SPACES-MENU))
                   (if CONCEPT-SPACE-NAME
                       then (SETQ CONCEPT-SPACE (TEST.GET-CONCEPT-SPACE CONCEPT-SPACE-NAME))))
                                     (CAR TEST.CONCEPT-SPACES)))
                      CONCEPT-SPACE
          (TEST.DISPLAY-CONCEPT-SPACE-BROWSER CONCEPT-SPACE)
(TEST.BROWSE-SUBTREE-COMMAND
  [LAMBDA (WINDOW)
                                                                   (* sm "20-Aug-85 13:35")
          (SUBSPACE ROOT-NAME CONCEPT-NODE)
    (PROG
          (SETQ CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select concept to browse"))
          (SETQ ROOT-NAME (fetch NODEID of CONCEPT-NODE))
          [SETQ SUBSPACE (create CONCEPTSPACE
                                 CONCEPTSPACENAME _ ROOT-NAME ROOTCONCEPT _ ROOT-NAME
                                 CONCEPTLIST _ (TEST.SETIFY
                                                            (TEST.COLLECT-SUBCONCEPTS-CLOSURE
                                                             ROOT-NAME
                                                              (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS]
          (TEST.DISPLAY-CONCEPT-SPACE-BROWSER SUBSPACE)
(TEST.CANONICAL-CONCEPT-SPACE-FILE-NAME
                                                                   (* sm "19-Aug-85 12:11")
  [LAMBDA (CONCEPT-SPACE-NAME)
(PACK* CONCEPT-SPACE-NAME (QUOTE .CONCEPTSPACE])
```

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[LAMBDA (WINDOW)
                                                                      (* sm "20-Aug-85 13:08")
    (PROG
          (NEW-DEPTH)
           (SETQ NEW-DEPTH
            (MENU (create MENU
                         ITEMS
                          (QUOTE ((Quit NIL)
                                  Inf 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20))
                         MENUROWS _ 5
MENUFONT _ BIGFONT
                         CENTERFLG _ T)))
           (if (NULL NEW-DEPTH)
               then (RETURN NIL)
            else (WINDOWPROP WINDOW (QUOTE TEST.DEPTH)
                         (if (FIXP NEW-DEPTH)
                             then NEW-DEPTH
                           else NIL)
                  (TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH WINDOW)
                         WINDOW1)
(TEST.CLEANUP-AFTER-TEST
  [LAMBDA (TEST RESULT ACTUAL-ARGUMENTS LOCATION)
                                                                      (* sm "21-Aug-85 14:00")
    (PROG (FORMTOEVAL)
           (SETQ FORMTOEVAL (TEST.GET-FIELD-VALUE (QUOTE EVALAFTER)
                                     TEST))
           (if FORMTOEVAL
              then [if (EQ (CAR FORMTOEVAL)
                            (QUOTE LAMBDA))
                        then (SETQ FORMTOEVAL (LIST (QUOTE APPLY)
                                                       (KWOTE FORMTOEVAL)
                                                       (KWOTE (LIST RESULT ACTUAL-ARGUMENTS]
                    (if (EQ LOCATION (QUOTE Remote))
                        then (TEST.REMOTE-EVAL-FORM FORMTOEVAL)
                      else (TEST.LOCAL-EVAL-FORM FORMTOEVAL])
(TEST.COLLECT-ALL-TESTS
                                                                      (* sm " 2-Jul-85 16:50")
  [LAMBDA (CONCEPT-NAME CONCEPT-LIST)
    (PROG
          (CONCEPT)
           (RETURN (UNION (fetch TESTS of (SETQ CONCEPT (FASSOC CONCEPT-NAME CONCEPT-LIST)))
(TEST.UNION-LIST (for Subconcept in (fetch Subconcepts of Concept)

collect (TEST.COLLECT-ALL-TESTS Subconcept concept-List])
(TEST.COLLECT-SUBCONCEPTS-CLOSURE
  [LAMBDA (CONCEPT-NAME CONCEPT-LIST)
                                                                      (* sm "20-Aug-85 11:12")
    (PROG (CONCEPT)
           (SETQ CONCEPT (FASSOC CONCEPT-NAME CONCEPT-LIST))
           (SETQ SUBTREE (for SUBCONCEPT in (fetch SUBCONCEPTS of CONCEPT) join (TEST.COLLECT-SUBCONCEPTS-CLOSURE
                                                                                   SUBCONCEPT CONCEPT-LIST)))
           (if (FASSOC CONCEPT-NAME SUBTREE)
               then (RETURN SUBTREE)
            else (RETURN (CONS CONCEPT SUBTREE])
(TEST.COMPUTE-AVERAGE-TEST-SIZE
                                                                      (* sm "20-Aug-85 16:02")
  [LAMBDA NIL
    (PROG (LENGTH-SUM NUMBER-OF-FILES)
           (SETQ LENGTH-SUM (DIRECTORY (PACK* TEST.TEST-DATA-BASE-DIRECTORY (QUOTE TEST)
                                                 (QUOTE *.;))
                                     (QUOTE COUNTSIZE)))
           [SETQ NUMBER-OF-FILES (FLENGTH (DIRECTORY (PACK* TEST-DATA-BASE-DIRECTORY (QUOTE TEST)
                                                                (QUOTE *.;]
           (SETQ TEST.AVERAGE-TEST-SIZE (FQUOTIENT LENGTH-SUM NUMBER-OF-FILES))
           (RETURN TEST.AVERAGE-TEST-SIZE])
(TEST.COPY-SUBTREE-COMMAND
  [LAMBDA (WINDOW)
                                                                      (* sm "19-Aug-85 15:18")
          (PARENT-NODE NEW-CONCEPT-NAME NEW-CONCEPTS TARGET-CONCEPT-LIST SOURCE-CONCEPT-LIST SOURCE-ROOT-NODE)
    (PROG
           (SETQ PARENT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select target parent node "))
           (SETQ SOURCE-ROOT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select root of source subtreee." T))
           (SETQ SOURCE-WINDOW TEST.WINDOW-OF-LAST-SELECTION)
           (SETQ SOURCE-CONCEPT-LIST (WINDOWPROP SOURCE-WINDOW (QUOTE TEST.LIST-OF-CONCEPTS)))
(SETQ TARGET-CONCEPT-LIST (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS)))
           (SETQ NEW-CONCEPT-NAME (fetch NODEID of SOURCE-ROOT-NODE))
           (pushnew (fetch subconcepts of (TEST.GET-CONCEPT PARENT-NODE TARGET-CONCEPT-LIST))
                  NEW-CONCEPT-NAME)
           (SETO NEW-CONCEPTS (TEST.ADD-CONCEPT-AND-SUBCONCEPTS-TO-CONCEPT-LIST NEW-CONCEPT-NAME
                                       SOURCE-CONCEPT-LIST TARGET-CONCEPT-LIST))
           (pushnew (fetch SUPERCONCEPTS of (FASSOC NEW-CONCEPT-NAME TARGET-CONCEPT-LIST))
                  (fetch NODEID of PARENT-NODE))
           (for c in New-concepts bind superconcepts do (setq superconcepts (fetch superconcepts
                                                                                   of (FASSOC C TARGET-CONCEPT-LIST)))
                                                          (for s in superconcepts when (Not (Fassoc s
                                                                                                      TARGET-CONCEPT-LIST
                                                                                                      ))
```

INCLUDE-TESTS (SUB1 DEPTH])

```
do (DREMOVE S SUPERCONCEPTS)))
           (TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH WINDOW)
                  WINDOW1)
(TEST.COPYBUTTONEVENTFN
  [LAMBDA (WINDOW)
                                                                      (* sm "19-Jul-85 16:54")
    (PROG (CURSOR-POS SELECTED-NODE NODE-REGION RELEASED)
           (SETQ CURSOR-POS (CURSORPOSITION NIL WINDOW))
           [SETQ RELEASED (MOUSESTATE (AND (NOT LEFT)
                                              (NOT MIDDLE)
                                              (NOT RIGHT]
           (if (SETO SELECTED-NODE (for NODE in (fetch graphnodes of (Windowprop Window (Quote graph)))
                                       thereis (INSIDEP (SETQ NODE-REGION (NODEREGION NODE))
                                                      CURSOR-POS)))
               then (FLIPNODE SELECTED-NODE WINDOW)
            else (GRAPHERCOPYBUTTONEVENTFN WINDOW))
           (if (AND RELEASED SELECTED-NODE)
               then (BKSYSBUF (TEST.COLLECT-ALL-TESTS (fetch NODEID of SELECTED-NODE)
                                       (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS])
(TEST.CREATE-CONCEPT-SPACE-GRAPH
  [LAMBDA (CONCEPT-LIST INCLUDE-TESTS ROOT-CONCEPT DEPTH)
                                                                      (* sm "20-Aug-85 12:21")
          (GRAPH NODE-LIST TESTS-SET TEST.COLLECTED-GRAPH-NODES)
    (PROG
           [if (WINDOWP CONCEPT-LIST)
               then (SETQ INCLUDE-TESTS (WINDOWPROP CONCEPT-LIST (QUOTE TEST.DISPLAY-TEST-MODE)))
                    (SETQ CONCEPT-LIST (WINDOWPROP CONCEPT-LIST (QUOTE TEST.LIST-OF-CONCEPTS))) (SETQ ROOT-CONCEPT (WINDOWPROP WINDOW (QUOTE TEST.ROOT-CONCEPT)))
                    (SETQ DEPTH (WINDOWPROP WINDOW (QUOTE TEST.DEPTH]
           [if INCLUDE-TESTS
               then [SETQ TESTS-SET (for CONCEPT in CONCEPT-LIST join (COPY (fetch TESTS of CONCEPT] (SETQ TESTS-SET (TEST.SETIFY TESTS-SET))
                    (SETQ NODE-LIST (for TEST in TESTS-SET collect (create GRAPHNODE
                                                                            NODELABEL
                                                                                         TEST
                                                                            NODEID _ TEST]
           [SETQ NODE-LIST (APPEND NODE-LIST
                                    (if DEPTH
                                        then (TEST.CREATE-GRAPH-NODES ROOT-CONCEPT CONCEPT-LIST INCLUDE-TESTS
                                                     DEPTH)
                                             TEST.COLLECTED-GRAPH-NODES
                                      else (for concept in concept-list
                                              collect (create GRAPHNODE
                                                             NODELABEL
                                                                          (fetch CONCEPTNAME of CONCEPT)
                                                             NODEID _ (fetch CONCEPTNAME of CONCEPT)
                                                             TONODES _ (APPEND (fetch SUBCONCEPTS of CONCEPT)
                                                                                (if INCLUDE-TESTS
                                                                                    then (fetch TESTS of CONCEPT]
           (SETQ GRAPH (LAYOUTGRAPH NODE-LIST (LIST ROOT-CONCEPT)
                               (OUOTE LATTICE)))
           (RETURN GRAPH1)
(TEST.CREATE-CONCEPT-WINDOW-MENU
                                                                      (* sm "19-Aug-85 14:14")
  [LAMBDA (WINDOW)
    (create MENU
                    TEST.CONCEPT-WINDOW-MENU-ITEMS
           ITEMS
           WHENSELECTEDFN _ (QUOTE TEST.DOCOMMAND])
(TEST.CREATE-GRAPH-NODES
  [LAMBDA (ROOT-NAME CONCEPT-LIST INCLUDE-TESTS DEPTH) (PROG (ROOT-CONCEPT NEW-NODE)
                                                                       (* sm "20-Aug-85 13:48")
           (if (NOT (FASSOC ROOT-NAME TEST.COLLECTED-GRAPH-NODES))
               then
                    (SETQ ROOT-CONCEPT (FASSOC ROOT-NAME CONCEPT-LIST))
                    (if (EQP DEPTH 1)
                        then (SETQ NEW-NODE (create GRAPHNODE
                                                     NODELABEL
                                                                  ROOT-NAME
                                                     NODEID _ ROOT-NAME
                                                     TONODES _ (if INCLUDE-TESTS
                                                                     then (TEST.COLLECT-ALL-TESTS ROOT-NAME
                                                                                 CONCEPT-LIST))
                                                     NODEBORDER _ (if (fetch SUBCONCEPTS of ROOT-CONCEPT)
                                                                        then 1)))
                             (SETQ TEST.COLLECTED-GRAPH-NODES (CONS NEW-NODE TEST.COLLECTED-GRAPH-NODES))
                      else [SETQ NEW-NODE (create GRAPHNODE
                                                   NODELABEL
                                                                ROOT-NAME
                                                   NODEID _ ROOT-NAME
TONODES _ (APPEND _ (fetch SUBCONCEPTS of ROOT-CONCEPT)
                                                                      (if INCLUDE-TESTS
                           then (fetch Tests of ROOT-CONCEPT]
(SETQ TEST.COLLECTED-GRAPH-NODES (CONS NEW-NODE TEST.COLLECTED-GRAPH-NODES))
                           (for s in (fetch subconcepts of root-concept) do (TEST.CREATE-GRAPH-NODES s concept-list
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(TEST.GET-CONCEPT SUBCONCEPT-NODE CONCEPT-LIST))
(TEST.REMOVE-SUBCONCEPT-LINK SUPERCONCEPT (fetch CONCEPTNAME of SUBCONCEPT))
(TEST.REMOVE-SUPERCONCEPT-LINK SUBCONCEPT (fetch CONCEPTNAME of SUPERCONCEPT)
(TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH WINDOW)
         WINDOW1)
```

(TEST.DELETE-TEST-COMMAND

```
(* sm "19-Aug-85 16:05")
[LAMBDA (WINDOW)
  (PROG (CONCEPT-NODE CONCEPT-LIST CURRENT-TESTS TEST-LIST TEST-SELECTED)
        (SETQ CONCEPT-LIST (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS)))
```

```
(SETQ CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select the concept from which the test should be
            (SETQ TEST-LIST (TEST.GET-TEST-SELECTION WINDOW CONCEPT-NODE T))
            (SETQ CURRENT-TESTS (fetch TESTS of (TEST.GET-CONCEPT CONCEPT-NODE CONCEPT-LIST)))
            (SETQ CURRENT-TESTS (LDIFFERENCE CURRENT-TESTS TEST-LIST))
(replace TESTS of (TEST.GET-CONCEPT CONCEPT-NODE CONCEPT-LIST) with CURRENT-TESTS)
            (if (WINDOWPROP WINDOW (QUOTE TEST.DISPLAY-TEST-MODE))
then (TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH CONCEPT-LIST T)
(TEST.DETACH-TESTS-MENU
  [LAMBDA (WINDOW)
                                                                               (* sm "21-Aug-85 13:09")
     (If (WINDOWPROP WINDOW (QUOTE TEST.TESTS-MENU-WINDOW))
then (DETACHWINDOW (WINDOWPROP WINDOW (QUOTE TEST.TESTS-MENU-WINDOW)))
               (CLOSEW (WINDOWPROP WINDOW (QUOTE TEST.TESTS-MENU-WINDOW)))
               (WINDOWPROP WINDOW (QUOTE TEST. TESTS-MENU-WINDOW)
                       NIL1)
(TEST.DISPLAY-CONCEPT-GRAPH
                                                                               (* sm "19-Jul-85 16:58")
  [LAMBDA (GRAPH WINDOW)
     (SHOWGRAPH GRAPH WINDOW (QUOTE TEST.LEFT-BUTTON-SELECTION))
     (WINDOWPROP WINDOW (QUOTE COPYBUTTONEVENTFN)
             (QUOTE TEST.COPYBUTTONEVENTFN])
(TEST.DISPLAY-CONCEPT-SPACE-BROWSER
                                                                               (* sm "20-Aug-85 13:39")
  [LAMBDA (CONCEPT-SPACE REGION/POSITION DEPTH INCLUDE-TESTS)
     (PROG (GRAPH WINDOW GRAPH-REGION CONCEPT-LIST ROOT-CONCEPT GRAPH-WINDOW-WIDTH GRAPH-WINDOW-HEIGHT)
            (if (NULL CONCEPT-SPACE)
            then (SETQ CONCEPT-SPACE (TEST.GET-CONCEPT-SPACE TEST.DEFAULT-CONCEPT-SPACE-NAME)))
(SETQ GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH (fetch CONCEPTLIST of CONCEPT-SPACE)
                                   INCLUDE-TESTS
                                    (fetch ROOTCONCEPT of CONCEPT-SPACE)
                                    (OR DEPTH TEST.DEFAULT-DEPTH)))
            [SETQ GRAPH-WINDOW-WIDTH (MAX 250 (MIN (IDIFFERENCE SCREENWIDTH 200)
                                                            (fetch WIDTH of (SETQ GRAPH-REGION (GRAPHREGION GRAPH)
            [SETQ GRAPH-WINDOW-HEIGHT (MAX 120 (MIN (IDIFFERENCE SCREENHEIGHT 200)
                                                             (IPLUS 15 (fetch HEIGHT of GRAPH-REGION)
            [SETQ REGION (if (REGIONP REGION/POSITION)
                                 then REGION/POSITION
                              elseif (POSITIONP REGION/POSITION)
                                 then (CREATEREGION (fetch XCOORD of REGION/POSITION)
                                               (fetch YCOORD of REGION/POSITION)
                                               GRAPH-WINDOW-WIDTH GRAPH-WINDOW-HEIGHT)
                              else (GETBOXREGION GRAPH-WINDOW-WIDTH GRAPH-WINDOW-HEIGHT NIL NIL NIL
            (CONCAT "Specify position for " (fetch CONCEPTSPACENAME of CONCEPT-SPACE)

" browser."]

(SETQ WINDOW (CREATEW REGION (CONCAT (fetch CONCEPTSPACENAME of CONCEPT-SPACE)
                                                          Concept Space")))
            (WINDOWPROP WINDOW (QUOTE TEST.ROOT-CONCEPT)
                     (fetch ROOTCONCEPT of CONCEPT-SPACE))
            (WINDOWPROP WINDOW (QUOTE TEST.CONCEPT-SPACE)
                     CONCEPT-SPACE
            (TEST.DISPLAY-CONCEPT-GRAPH GRAPH WINDOW)
            (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS)
(fetch CONCEPTLIST of CONCEPT-SPACE))
            (WINDOWPROP WINDOW (QUOTE TEST.PROCESS)
                    NIL)
            (WINDOWPROP WINDOW (QUOTE TEST.TEST-SELECTION-ENDED-EVENT)
                     (CREATE.EVENT))
            (WINDOWPROP WINDOW (QUOTE TEST.NODE-SELECTED-EVENT)
(CREATE.EVENT "TEST:NODE-SELECTED-EVENT"))
(WINDOWPROP WINDOW (QUOTE ICONFN)
(QUOTE TEST.CREATE-ICON-WINDOW))
            (GETPROMPTWINDOW WINDOW 3)
            (ATTACHMENU (TEST.CREATE-CONCEPT-WINDOW-MENU WINDOW)
                    WINDOW
                     (QUOTE RIGHT)
                     (QUOTE JUSTIFY)
            (ATTACHMENU (TEST.CREATE-INTERRUPT-MENU WINDOW)
                    WINDOW
                     (QUOTE BOTTOM)
                     (QUOTE JUSTIFY))
            (RETURN WINDOW])
(TEST.DOCOMMAND
  [LAMBDA (ITEM MENU KEY)
                                                                               (* sm "21-Aug-85 13:10")
     (PROG (WINDOW)
            (SETQ WINDOW (MAINWINDOW (WFROMMENU MENU)))
(SETQ PARENT-ITEM (TEST.FIND-MENU-ITEM ITEM (fetch ITEMS of MENU)))
(WINDOWPROP WINDOW (QUOTE TEST.PROCESS)
(ADD.PROCESS [SUBPAIR (QUOTE (WINDOW MENU ITEM PARENT-ITEM))
                                             (LIST WINDOW MENU ITEM PARENT-ITEM)
                                             (QUOTE (PROGN (TTYDISPLAYSTREAM (TEST.PROMPT-WINDOW WINDOW))
```

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(SHADEITEM (QUOTE PARENT-ITEM)
                                                                 MENU GRAYSHADE)
                                                          (WINDOWPROP WINDOW (QUOTE TEST.UNSHADE-IF-SHADED)
                                                                 (QUOTE (SHADEITEM (QUOTE PARENT-ITEM)
                                                                                 MENU WHITESHADE)))
                                                          (CLEARW (TEST.PROMPT-WINDOW WINDOW))
                                                          (APPLY* (CADR (QUOTE ITEM))
                                                                 WINDOW)
                                                          (PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
                                                                  (CAR (QUOTE PARENT-ITEM))
                                                                   Completed. ")
                                                          (WINDOWPROP WINDOW (QUOTE TEST.UNSHADE-IF-SHADED)
                                                                 NIL)
                                                          (TEST.DETACH-TESTS-MENU WINDOW)
                                                          (SHADEITEM (QUOTE PARENT-ITEM)
                                                                 MENU WHITESHADE)
                                                          (WINDOWPROP WINDOW (QUOTE TEST.PROCESS)
                                                                 NILl
                           (QUOTE WINDOW)
                           (TEST.PROMPT-WINDOW WINDOW)
                           (QUOTE NAME)
                           (CAR ITEM1)
(TEST.EDIT-TEST
  [LAMBDA (TEST LOCK/NOLOCK)
                                                                         (* sm "26-Jul-85 15:00")
    (PROG (INSPECTW)
           (if (FIXP TEST)
               then (SETQ TEST (TEST.GET-TEST TEST)))
           (TEST.MARK-AS-CHANGED (fetch TESTID of TEST))
(if (AND TEST.OBTAIN-LOCK-WHEN-EDIT (NEQ LOCK/NOLOCK (QUOTE NOLOCK)))
then (if [NOT (TEST.OBTAIN-DATABASE-WRITE-LOCK (LIST (fetch TESTID of TEST]
                         then (PRINTOUT T "Can not obtain lock on test number " (fetch TESTID of TEST))
                               (RETURN NIL)))
           [SETQ INSPECTW (INSPECT TEST (QUOTE TEST)
                                    (GETBOXREGION 700 (ITIMES 15 (LENGTH (RECORDFIELDNAMES (QUOTE TEST)
           (WINDOWPROP INSPECTW (QUOTE ICONFN)
                   (QUOTE TEST.INSPECTW.ICONFN))
           [WINDOWPROP INSPECTW (QUOTE STOREFN)
                   (LIST (QUOTE LAMBDA)
                          (QUOTE (I F N))
                          (LIST (QUOTE TEST.MARK-AS-CHANGED)
                                (fetch TESTID of TEST))
                          (LTST
                                (QUOTE APPLY)
                                 (KWOTE (WINDOWPROP INSPECTW (QUOTE STOREFN)))
           (TEST.REPLACE-INSEPCTW-VALUECOMMANDFN INSPECTW)
           (RETURN (fetch TESTID of TEST])
(TEST.EDIT-TEST-COMMAND
                                                                         (* sm "19-Aug-85 15:00")
  [LAMBDA (WINDOW)
           (TEST-SELECTED TEST-NUMBER CONCEPT-NODE)

(if (WINDOWPROP WINDOW (QUOTE TEST.DISPLAY-TEST-MODE))

then (SETQ TEST-SELECTED (TEST.WAIT-FOR-SELECTION WINDOW "Select the test you want to edit"))
    (PROG
             (SETQ TEST-NUMBER (fetch NODEID of TEST-SELECTED))

else (SETQ CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select a concept which contains the test you
                  want to edit."))
(SETQ TEST-NUMBER (TEST.POP-UP-TESTS-MENU WINDOW CONCEPT-NODE "Select the test that you want to
                                              edit.")))
           (if (FIXP TEST-NUMBER)
               then (TEST.EDIT-TEST (TEST.GET-TEST TEST-NUMBER])
(TEST.ERRORP
  [LAMBDA (EXPR)
                                                                         (* sm "27-Jun-85 10:25")
    (AND EXPR (LISTP EXPR)
          (EQ (CAR EXPR)
              (QUOTE ERROR!])
(TEST.EVAL-BEFORE-TEST
  [LAMBDA (TEST LOCATION)
                                                                         (* sm "21-Aug-85 13:50")
       (EQ LOCATION (QUOTE Remote))
        then (TEST.REMOTE-EVAL-FORM (TEST.GET-FIELD-VALUE (QUOTE EVALBEFORE)
      else (TEST.LOCAL-EVAL-FORM (TEST.GET-FIELD-VALUE (QUOTE EVALBEFORE)
                                             TEST1)
(TEST.EVALUATE-OUTCOME
  [LAMBDA (TEST RESULT ACTUAL-ARGUMENTS LOCATION)
                                                                         (* sm "21-Aug-85 13:55")
    (PROG (FORMTOEVAL)
           [SETQ FORMTOEVAL (LIST (QUOTE APPLY)
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(KWOTE (TEST.GET-FIELD-VALUE (QUOTE SUCCESSPREDICATE)
                                                          TEST))
                                         (KWOTE (LIST RESULT ACTUAL-ARGUMENTS]
            (RETURN (if (EQ LOCATION (QUOTE Remote))
                           then (TEST.REMOTE-EVAL-FORM FORMTOEVAL)
                        else (TEST.LOCAL-EVAL-FORM FORMTOEVAL])
(TEST.EVALUATE-TESTED-EXPR
  [LAMBDA (TEST ACTUAL-ARGUMENTS LOCATION)
                                                                               (* sm "21-Aug-85 13:53")
     (PROG (RESULT EXPRESSION-TO-EVALUATE TIMEOUT.ms)
            (SETQ EXPRESSION-TO-EVALUATE (TEST.GET-FIELD-VALUE (QUOTE EVALEXPR)
            [if [OR (GETD EXPRESSION-TO-EVALUATE)
                     (AND (LISTP EXPRESSION-TO-EVALUATE)
                           (EQ (CAR EXPRESSION-TO-EVALUATE)
                                (QUOTE LAMBDA]
                 then (SETO EXPRESSION-TO-EVALUATE (LIST (QUOTE APPLY)
                                                                  (KWOTE EXPRESSION-TO-EVALUATE)
                                                                  (KWOTE (COPY ACTUAL-ARGUMENTS]
            (SETQ TIMEOUT.ms (TEST.GET-FIELD-VALUE (QUOTE TIMEOUT)
            TEST))
(if (AND TIMEOUT.ms (EQ (CAR TIMEOUT.ms)
                                         (QUOTE LAMBDA)))
            else (TEST.PERFORM-TIMED-EVALUATION EXPRESSION-TO-EVALUATE TIMEOUT.ms])
(TEST.EXECUTE-SELECTED-TESTS-COMMAND
    AMBDA (WINDOW)
(TEST.EXECUTE-TESTS WINDOW T])
                                                                               (* sm "21-Aug-85 14:11")
(TEST.EXECUTE-TESTS
  [LAMBDA (WINDOW SELLECTED-TESTS?)
                                                                               (* sm "21-Aug-85 14:45")
     (PROG (CONCEPT-NODE TEST-LIST TRACE-FILE HARDCOPY-FILE SPECS HARDCOPY-MODE PRETEST-MODE TRACE-MODE LOCATION)
(SETQ CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select concept whoes tests should be executed."))
            (if (NOT SELLECTED-TESTS?)
                 then [SETQ TEST-LIST (TEST.COLLECT-ALL-TESTS (fetch NODEID of CONCEPT-NODE)
                                                   (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS]
                       (TEST.ATTACH-TESTS-MENU WINDOW TEST-LIST)
              (for test in test-list do (TEST.SHADE-TEST test window blackshade))
else (setq test-list (TEST.GET-TEST-SELECTION window concept-node)))
            (SETO SPECS (TEST.GET-EXECUTION-SPECS))
            (SETQ HARDCOPY-MODE (CAR SPECS))
            (SETQ PRETEST-MODE (CADR SPECS))
            (SETQ TRACE-MODE (CADDR SPECS))
(SETQ LOCATION (CADDDR SPECS))
            (SETQ TRACE-FILE (OPENFILE TEST.TRACE-FILE-NAME (QUOTE OUTPUT)
                                         (QUOTE NEW)))
            (CLOSEF TRACE-FILE)
            (CLOSEF TRACE-FILE)
(if (EQ PRETEST-MODE (QUOTE Strong-Links))
then (SETQ TEST-LIST (TEST.GET-STRONG-LINK-CLOSURE TEST-LIST))
(TEST.DETACH-TESTS-MENU WINDOW)
(TEST.ATTACH-TESTS-MENU WINDOW TEST-LIST)
                       (for TEST in TEST-LIST do (TEST.SHADE-TEST TEST WINDOW BLACKSHADE)))
            (if (NEQ PRETEST-MODE (QUOTE No-Pretests))
    then (SETQ TEST-LIST (TEST.TOPOLOGICAL-ORDER TEST-LIST)))
            (for TEST in TEST-LIST do (TEST.SHADE-TEST TEST WINDOW GRAYSHADE)
                                           (PRINTOUT (TEST.PROMPT-WINDOW WINDOW)

T "Performing test number: " TEST T)

(TEST.PERFORM-TEST (TEST.GET-TEST TEST)
                                                   NIL LOCATION TRACE-FILE TRACE-MODE))
            (CLOSEF? TRACE-FILE)
            (if (NEQ HARDCOPY-MODE (QUOTE No-Hardcopy))
then (PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
T " Hardcopying outcome of tests.")
[SETQ HARDCOPY-FILE (TEST.HARDCOPY-TRACE-FILE TRACE-FILE NIL (EQ HARDCOPY-MODE (QUOTE
                                                                                                                           Failures-Only
                                                                                                                                  1
                      (PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
            T "Outcomes hardcopy on " HARDCOPY-FILE))
(PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
                    T "Test trace on file " TRACE-FILE])
(TEST.FIND-MENU-ITEM
  [LAMBDA (ITEM ITEM-LIST)
                                                                                (* sm "19-Jul-85 15:37")
     (COND
        ((NULL ITEM-LIST)
         NIL)
        ((ATOM ITEM-LIST)
         NIL)
        ((FMEMB ITEM ITEM-LIST)
         ITEM)
```

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{MEDLEY} < test > tools > TESTER.; 1 (TEST.FIND-MENU-ITEM cont.)
                                                                                                          Page 10
      ([AND (CDDDR (CAR ITEM-LIST))
             (EQ (CAR (CADDDR (CAR ITEM-LIST)))
                 (QUOTE SUBITEMS))
             (TEST.FIND-MENU-ITEM ITEM (CDR (CADDDR (CAR ITEM-LIST]
       (T (TEST.FIND-MENU-ITEM ITEM (CDR ITEM-LIST])
(TEST.GENERATE-COMPARE-FUNCTION
  [LAMBDA (VAL)
                                                                 (* sm "15-Jun-85 23:33")
   (LIST (QUOTE LAMBDA)
          (QUOTE (RES ARGS))
          (LIST (QUOTE EQUAL)
                (QUOTE RES)
                VAL])
(TEST.GENERATE-INPUT
                                                                 (* sm "25-Jul-85 17:53")
  [LAMBDA (TEST)
    (PROG (CURRENT-INPUT)
          (SETQ CURRENT-INPUT (TEST.GET-FIELD-VALUE (QUOTE INPUT)
                                     TEST))
          (if (EQ (CAR CURRENT-INPUT)
                 (QUOTE SYSTEMATIC))
             ARG-SPEC1
           else (RETURN (LIST (TEST.LOCAL-EVAL-FORM CURRENT-INPUT])
(TEST.GET-AND-INCREASE-NEXT-TESTID
  [LAMBDA NIL
                                                                 (* sm "17-Jul-85 15:12")
   (PROG (FNAME NEXTID)
          (SETQ FNAME (TEST.OPENFILE-OR-WAIT TEST.NAME-OF-FILE-HOLDING-NEXT-TESTID (QUOTE BOTH)))
          (SETQ NEXTID (READ FNAME))
          (if (NOT (FIXP NEXTID))
             then (CLOSEF FNAME)
                  (RETURN NIL))
          (SETFILEPTR FNAME 0)
          (PRIN1 (ADD1 NEXTID)
                FNAME)
          (CLOSEF FNAME)
          (RETURN NEXTID])
(TEST.GET-CONCEPT
  [LAMBDA (GRAPHNODE CONCEPT-LIST)
                                                                 (* sm "28-Jun-85 18:12")
   (FASSOC (fetch NODEID of GRAPHNODE)
          CONCEPT-LIST1)
(TEST.GET-CONCEPT-SPACE
  [LAMBDA (NAME)
(if (NULL NAME)
                                                                 (* sm "16-Aug-85 16:54")
       then (SETQ NAME TEST.DEFAULT-CONCEPT-SPACE-NAME))
      (NOT (BOUNDP (QUOTE TEST.CONCEPT-SPACES)))
       then NIL
     else (FASSOC NAME TEST.CONCEPT-SPACES])
(TEST.GET-DEFAULT-FILED-VALUE
  [LAMBDA (FIELD-NAME)
                                                                 (* sm " 3-Jul-85 09:59")
    (GETTOPVAL (PACK* (QUOTE TEST.DEFAULT.)
                     FIELD-NAME])
(TEST.GET-EXECUTION-SPECS
  [LAMBDA NIL
                                                                 (* sm "21-Aug-85 12:48")
    (PROG (WINDOW WINDOW1)
          (SETQ TEST.GLOBAL-EXECUTION-SPECS (LIST TEST.DEFAULT-HARDCOPY-MODE TEST.DEFAULT-PRETEST-MODE
                                                  TEST.DEFAULT-TRACE-MODE TEST.DEFAULT-LOCATION))
          (SETQ WINDOW (ADDMENU (create MENU
                                               (QUOTE (No-Hardcopy Failures-Only Hardcopy-All))
                                       WHENSELECTEDFN _ (QUOTE TEST.UPDATE-EXECUTION-SPEC)
TITLE _ "Hardcopy Mode"
                                       MENUFONT _ BOLDFONT)
                              NIL
                              (create POSITION
                                     XCOORD _ 300
YCOORD _ 300)))
          (WINDOWPROP WINDOW (QUOTE TEST.SELECTION)
                TEST.DEFAULT-HARDCOPY-MODE)
          (SHADEITEM TEST.DEFAULT-HARDCOPY-MODE (CAR (WINDOWPROP WINDOW (QUOTE MENU)))
                BLACKSHADE WINDOW)
          (SETO WINDOW1 (ATTACHMENU (create MENU
                                           TTEMS
                                                   (QUOTE (No-Pretests Weak-Links Strong-Links))
```

WHENSELECTEDFN _ (QUOTE TEST.UPDATE-EXECUTION-SPEC)

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TITLE _
                                                     _ "Pretests Mode"
                                              MENUFONT _ BOLDFONT)
                                 WINDOW
                                 (QUOTE RIGHT)
                                 (QUOTE JUSTIFY)))
           (WINDOWPROP WINDOW1 (QUOTE TEST.SELECTION)
                  TEST.DEFAULT-PRETEST-MODE)
           (SHADEITEM TEST.DEFAULT-PRETEST-MODE (CAR (WINDOWPROP WINDOW1 (QUOTE MENU)))
                  BLACKSHADE WINDOW1)
           (SETQ WINDOW1 (ATTACHMENU (create MENU
                                              ITEMS
                                                       (QUOTE (On Off))
                                              WHENSELECTEDFN _ (QUOTE TEST.UPDATE-EXECUTION-SPEC)
TITLE _ "Trace mode"
                                              MENUFONT _ BOLDFONT)
                                 WINDOW
                                 (QUOTE RIGHT)
                                 (QUOTE JUSTIFY)))
           (WINDOWPROP WINDOW1 (QUOTE TEST.SELECTION)
                  TEST.DEFAULT-TRACE-MODE)
           (SHADEITEM TEST.DEFAULT-TRACE-MODE (CAR (WINDOWPROP WINDOW1 (QUOTE MENU)))
                  BLACKSHADE WINDOW1)
           (SETQ WINDOW1 (ATTACHMENU (create MENU
                                              TTEMS
                                                      (QUOTE (Local Remote))
                                              WHENSELECTEDFN _ (QUOTE TEST.UPDATE-EXECUTION-SPEC)
TITLE _ "Location"
                                              MENUFONT _ BOLDFONT)
                                 MUNDOM
                                 (QUOTE RIGHT)
                                 (QUOTE JUSTIFY)))
           (WINDOWPROP WINDOW1 (QUOTE TEST.SELECTION)
                  TEST.DEFAULT-LOCATION)
           (SHADEITEM TEST.DEFAULT-LOCATION (CAR (WINDOWPROP WINDOW1 (QUOTE MENU)))
                  BLACKSHADE WINDOW1)
           (ATTACHMENU [create MENU
                                        (QUOTE ((" O
                               ITEMS
                                                        K")))
                               CENTERFLG _ T
                               WHENSELECTEDFN _ (QUOTE (LAMBDA (ITEM MENU KEY)
                                                                 (SETQ TEST.GLOBAL-EXECUTION-SPECS
                                                                       (for W in [CONS (MAINWINDOW (WFROMMENU MENU))
                                                                                         (ATTACHEDWINDOWS
                                                                                          (MAINWINDOW (WFROMMENU MENU]
                                                                            bind DEFAULT when (SETQ
                                                                                                 DEFAULT
                                                                                                 (WINDOWPROP
                                                                                                  (QUOTE TEST.SELECTION
                                                                                                          )))
                                                                            collect DEFAULT))
                                                                 (CLOSEW (MAINWINDOW (WFROMMENU MENU)))
                                                                 (NOTIFY.EVENT TEST.EXECUTION-SPECS-EVENT T)
                  WINDOW
                  (OUOTE BOTTOM)
                  (OUOTE JUSTIFY))
           (AWAIT.EVENT TEST.EXECUTION-SPECS-EVENT 600000)
           (RETURN TEST.GLOBAL-EXECUTION-SPECS])
(TEST.GET-FIELD-VALUE
                                                                     (* sm " 3-Jul-85 09:40")
  [LAMBDA (FIELD DATUM DEC)
          (F-VALUE)
    (PROG
           (SETQ F-VALUE (RECORDACCESS FIELD DATUM DEC))
          (if (AND F-VALUE (LISTP F-VALUE) (EQ (CAR F-VALUE)
                        (QUOTE &))
                   (FIXP (CADR F-VALUE))
              then (RETURN (TEST.GET-FIELD-VALUE FIELD (TEST.GET-TEST (CADR F-VALUE))
            else (RETURN F-VALUE])
(TEST.GET-LOCKING-USERS
  [LAMBDA (TEST-LIST)
                                                                     (* sm "23-Jul-85 13:41")
          (LOCK-FILE LOCK-INFO USER-LIST INTERSECT-INFO)
(SETQ LOCK-FILE (TEST.OPENFILE-OR-WAIT TEST.NAME-OF-LOCK-FILE (QUOTE INPUT)))
           (if (NOT (EOFP LOCK-FILE))
              then (SETQ LOCK-INFO (READ LOCK-FILE)))
             (EQ TEST-LIST (QUOTE DATABASE))
              then (SETQ USER-LIST (for K in LOCK-INFO collect (CAR K)))
            else (SETO USER-LIST (for USER-INFO in LOCK-INFO
                                     when [CDR (SETQ INTERSECT-INFO (CONS (CAR USER-INFO)
                                                                               (if (EQ (CADR USER-INFO)
                                                                                      (QUOTE DATABASE))
                                                                                  then TEST-LIST
                                                                                else (INTERSECTION TEST-LIST
                                                                                             (CDR USER-INFO]
                                     collect INTERSECT-INFO)))
           (CLOSEF LOCK-FILE)
```

(RETURN USER-LIST])

```
(TEST.GET-NEXT-AVAILABLE-TESTID
                                                                       (* sm "17-Jul-85 14:51")
  [LAMBDA NIL
    (PROG (FNAME NEXTID)
          (SETQ FNAME (TEST.OPENFILE-OR-WAIT TEST.NAME-OF-FILE-HOLDING-NEXT-TESTID (QUOTE INPUT)
                                (OUOTE OLD)))
           (SETQ NEXTID (READ FNAME))
           (CLOSEF FNAME)
           (if (FIXP NEXTID)
               then (RETURN NEXTID)
            else (RETURN NIL1)
(TEST.GET-STRONG-LINK-CLOSURE
                                                                      (* sm "21-Aug-85 10:07")
  [LAMBDA (TEST-SET)
          (OLD NEW LAST)
(SETQ OLD TEST-SET)
    (PROG
           (SETQ LAST TEST-SET)
      LOOP
           (SETO NEW NIL)
           [for Test in Last do (for strong-pretest in [CDR (Fassoc (Quote strong)
                                                                     (TEST.GET-FIELD-VALUE (QUOTE PRETESTS)
(TEST.GET-TEST TEST]
                                   do (SETQ NEW (CONS STRONG-PRETEST NEW]
           (if NEW
               then (SETQ OLD (APPEND OLD NEW))
                    (SETQ LAST NEW)
                    (GO LOOP)
            else (RETURN OLD])
(TEST.GET-TEST
  [LAMBDA (TEST-NUMBER)
                                                                      (* sm "21-Aug-85 09:45")
    (if (AND TEST-NUMBER (FIXP TEST-NUMBER)
            (GREATERP TEST-NUMBER 0))
(PROG (TEST TEMP-LIST-OF-TESTS TEST-POINTER)
                    (TEST.MAKE-BOUND (QUOTE TEST.LIST-OF-TESTS))
(SETQ TEMP-LIST-OF-TESTS TEST.LIST-OF-TESTS)
                    (while (AND TEMP-LIST-OF-TESTS (NOT TEST-POINTER))
                       do (if (EQ (CAAR TEMP-LIST-OF-TESTS)
                                  TEST-NUMBER)
                               then (SETO TEST-POINTER TEMP-LIST-OF-TESTS)
                            else (pop TEMP-LIST-OF-TESTS)))
                    (if (NULL TEST-POINTER)
                      then (RETURN (TEST.TEST-FAULT TEST-NUMBER))
else (SETQ TEST (CAR TEST-POINTER))
                           (RPLACA TEST-POINTER (CAR TEST.LIST-OF-TESTS))
(RPLACA TEST.LIST-OF-TESTS TEST)
                           (RETURN TEST1)
(TEST.GET-TEST-SELECTION
  [LAMBDA (WINDOW CONCEPT-NODE NODE-ONLY-FLAG)
                                                                      (* sm "19-Aug-85 15:54")
    (PROG (MENU TEST-LIST MENU-WINDOW)
           (SETQ TEST-LIST (SORT [if NODE-ONLY-FLAG
                                       then [fetch TESTS of (FASSOC (fetch NODEID of CONCEPT-NODE)
                                     (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS) else (TEST.COLLECT-ALL-TESTS (fetch NODEID of CONCEPT-NODE)
                                                  (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS]
                                   (QUOTE ILESSP)))
           (WINDOWPROP WINDOW (QUOTE TEST.SELECTED-TESTS)
                  NIL)
           (SETQ MENU-WINDOW (TEST.ATTACH-TESTS-MENU WINDOW (CONS (QUOTE OK)
                                                                        TEST-LIST)))
           (PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
                  T "Select tests from menu. when done select <ok> . ")
           (AWAIT.EVENT (WINDOWPROP WINDOW (QUOTE TEST.TEST-SELECTION-ENDED-EVENT)))
           (RETURN (WINDOWPROP WINDOW (QUOTE TEST.SELECTED-TESTS)
                           NIL])
(TEST.HARDCOPY-ALL-TESTS-COMMAND
  [LAMBDA (WINDOW)
                                                                      (* sm "25-Jul-85 16:30")
    (PROG (CONCEPT-NODE)
           (SETO CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select concept of which tests will be hardcopied")
           (TEST.HARDCOPY-TESTS TEST.DEFAULT-HARDCOPY-DEVICE (TEST.COLLECT-ALL-TESTS (fetch NODEID of
                                                                                                              CONCEPT-NODE
                                                                           (WINDOWPROP WINDOW (QUOTE
                                                                                                    TEST.LIST-OF-CONCEPTS
                                                                                                       )))
```

```
(TEST.HARDCOPY-ONE-TEST
  [LAMBDA (TEST FILE NEW-PAGE)
                                                                   (* sm "18-Jul-85 12:16")
    (if NEW-PAGE
       then (PRINTOUT FILE .PAGE))
    BIGFONT "Test number " (fetch TESTID of TEST)
    (for f in (RECORDFIELDNAMES (QUOTE TEST)) do (PRINTOUT FILE .FONT BOLDFONT F " : ".FONT SYSTEMFONT .PPF
                                                         (RECORDACCESS F TEST)
(TEST.HARDCOPY-SELECTED-TESTS-COMMAND
                                                                   (* sm "25-Jul-85 16:31")
  [LAMBDA (WINDOW)
    (PROG (CONCEPT-NODE TEST-LIST)
          (SETQ CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select concept of which tests will be hardcopied")
          (SETQ TEST-LIST (TEST.GET-TEST-SELECTION WINDOW CONCEPT-NODE))
          (if TEST-LIST
              then (TEST.HARDCOPY-TESTS TEST.DEFAULT-HARDCOPY-DEVICE TEST-LIST NIL
                          TEST.NEWPAGE-BEFORE-HARDCOPY-TEST])
(TEST.HARDCOPY-TESTS
  [LAMBDA (FILE-NAME TESTS-LIST-OR-LOW-LIMIT HIGH-LIMIT NEW-PAGE)
                                                                   (* sm "24-Jul-85 14:46")
    (PROG (F LOW HIGH THERMOMETER)
          (SETQ F (OPENFILE FILE-NAME (QUOTE OUTPUT)
                         (QUOTE NEW)))
          (if (AND TESTS-LIST-OR-LOW-LIMIT (LISTP TESTS-LIST-OR-LOW-LIMIT))
              then [if (AND TEST.DISPLAY-THERMOMETERS (CDR TESTS-LIST-OR-LOW-LIMIT))
                       then (SETQ THERMOMETER (CREATE-THERMOMETER (FLENGTH TESTS-LIST-OR-LOW-LIMIT)
                                                     NIL
                                                      (CREATEREGION 900 0 100 750]
                   (for TEST-NUMBER in (SORT TESTS-LIST-OR-LOW-LIMIT) as COUNTER from 1
                      do (UPDATE-THERMOMETER COUNTER THERMOMETER)
                         (TEST.HARDCOPY-ONE-TEST (TEST.GET-TEST TEST-NUMBER)
                                F NEW-PAGE))
            else (if (NULL TESTS-LIST-OR-LOW-LIMIT)
                     then (SETQ LOW 1)
                         (SETQ HIGH (SUB1 (TEST.GET-NEXT-AVAILABLE-TESTID)))
                       (SETQ LOW TESTS-LIST-OR-LOW-LIMIT)
                       (SETQ HIGH HIGH-LIMIT))
                [if (AND TEST.DISPLAY-THERMOMETERS (GREATERP HIGH LOW))
                 then (SETQ THERMOMETER (CREATE-THERMOMETER HIGH LOW (CREATEREGION 900 0 100 750] (for I from LOW to HIGH as COUNTER from 1 do (UPDATE-THERMOMETER COUNTER THERMOMETER)
                                                              (TEST.HARDCOPY-ONE-TEST (TEST-NUMBER
                                                                                               I)
                                                                     F NEW-PAGE)))
          (if THERMOMETER
              then (CLOSEW THERMOMETER))
          (CLOSEF F1)
(TEST.HARDCOPY-TRACE-FILE
  [LAMBDA (TRACE-FILE OUTPUT-FILE FAILURES-ONLY)
                                                                   (* sm "24-Jul-85 16:53")
    (PROG (OUT-FILE IN-FILE TEST-INFO TRACE-THERMOMETER)
(SETQ OUT-FILE (OPENFILE (OR OUTPUT-FILE TEST.DEFAULT-HARDCOPY-DEVICE)
                                 (QUOTE OUTPUT)
                                 (QUOTE NEW)))
          (SETQ IN-FILE (OPENFILE (OR TRACE-FILE TEST.TRACE-FILE-NAME)
                                (QUOTE INPUT)
                                (QUOTE OLD)))
          (if TEST.DISPLAY-THERMOMETERS
              then (SETQ TRACE-THERMOMETER (CREATE-THERMOMETER (GETEOFPTR IN-FILE)
                                                    (CREATEREGION 900 0 100 750)
                                                   "Trace hardcopy")))
          [while (NOT (EOFP IN-FILE)) do (SETQ TEST-INFO (READ IN-FILE))
                                          (UPDATE-THERMOMETER (GETFILEPTR IN-FILE)
                                                 TRACE-THERMOMETER)
                                          (if (OR (NOT FAILURES-ONLY)
                                                 (EQ (CAR (CDDDDR TEST-INFO))
                                                     (QUOTE FAILURE)))
                                              then (PRINTOUT OUT-FILE T
        ----- T .FONT BIGFONT "OUTCOME OF EXPERIMENT NUMBER : " (CAR TEST-INFO)

T .FONT BOLDFONT "Time executed : " .FONT SYSTEMFONT
                                                          (GDATE (CAR TEST-INFO))
                                                          T .FONT BOLDFONT "Test ID :" .FONT SYSTEMFONT
                                                          (CADR TEST-INFO)
                                                          T .FONT BOLDFONT "Actual arguments: " .FONT SYSTEMFONT)
                                                   (for ARG in (CADDR TEST-INFO)
                                                   do (PRINTOUT OUT-FILE T " .PPF (PRINTOUT OUT-FILE .FONT BOLDFONT T "Result : " .FONT
                                                                                                      .PPF ARG))
```

```
SYSTEMFONT .PPF (CADDDR TEST-INFO)
T .FONT BIGFONT "Test was " (CAR (CDDDDR TEST-INFO]
          (if TRACE-THERMOMETER
              then (CLOSEW TRACE-THERMOMETER))
          (CLOSEF OUT-FILE)
          (CLOSEF IN-FILE)
          (RETURN OUT-FILE])
(TEST.INIT
  [LAMBDA NII
                                                                     (* sm "19-Aug-85 17:28")
    (TEST.ADD-ITEM-TO-BACKGROUND-MENU "Tester" NIL "Move cursor to the right to select one of the subitems"
           TEST.BACKGROUND-MENU-SUBITEMS
    (TEST.LOAD-CONCEPT-SPACE (TEST.CANONICAL-CONCEPT-SPACE-FILE-NAME TEST.DEFAULT-CONCEPT-SPACE-NAME))
(TEST.INSPECTW.ICONFN
  [LAMBDA (WINDOW ICON)
                                                                     (* sm "25-Jul-85 14:57")
    [COND
       ((NULL ICON)
        (SETQ ICON (TITLEDICONW (create TITLEDICON
                                         ICON _ TEST.INSPECTW.ICON
                                                TEST.INSPECTW.MASK
                                         MASK
                                         TITLEREG _ (CREATEREGION 4 6 65 30))
                           (CONCAT_(WINDOWPROP WINDOW (QUOTE TITLE))
                                   INSPECTOR")
                           (FONTCREATE (QUOTE GACHA)
                                   8]
    ICON1)
(TEST.INSPECTW.VALUECOMMANDFN
  [LAMBDA (VALUE PROPERTY DATUM WINDOW)
                                                                    (* sm "26-Jul-85 15:09")
    (if (AND (LISTP VALUE)
            (EQ (CAR VALUE)
                 (QUOTE &))
             (FIXP (CADR VALUE)))
        then [MENU (create MENU
                          ITEMS _ (LIST (LIST (CONCAT "Edit test " (CADR VALUE))
                                                (LIST (QUOTE TEST.EDIT-TEST)
                                                       (CADR VALUE)
      else (TEST.MARK-AS-CHANGED (fetch TESTID of DATUM))
           (APPLY* (QUOTE DEFAULT.INSPECTW.VALUECOMMANDFN)
                  VALUE PROPERTY DATUM WINDOW])
(TEST.KILL-PROCESS
                                                                    (* sm "24-Jul-85 14:25")
  [LAMBDA (WINDOW)
    (COND
       ((WINDOWPROP WINDOW (QUOTE TEST.PROCESS))
        (DEL.PROCESS (WINDOWPROP WINDOW (QUOTE TEST.PROCESS)))
(FLASHWINDOW WINDOW 3)
        (CLEARW (TEST.PROMPT-WINDOW WINDOW))
        (printout (TEST.PROMPT-WINDOW WINDOW)
        "User interupt. TEST process aborted.")
(for w in (ATTACHEDWINDOWS WINDOW) when (WINDOWPROP W (QUOTE TEST.DETACH)) do (DETACHWINDOW W)
                                                                                           (CLOSEW W))
        (WINDOWPROP WINDOW (QUOTE TEST.PROCESS)
               NIL)
        (WINDOWPROP WINDOW (QUOTE TEST.TESTS-MENU-WINDOW)
               NTT.)
        (EVAL (WINDOWPROP WINDOW (QUOTE TEST.UNSHADE-IF-SHADED])
(TEST.LEFT-BUTTON-SELECTION
  [LAMBDA (SELECTED-OBJ WINDOW)
                                                                     (* sm "19-Aug-85 14:09")
    (WINDOWPROP WINDOW (QUOTE TEST.CONCEPT-SELECTED)
           SELECTED-OBJ)
    (SETQ TEST.WINDOW-OF-LAST-SELECTION WINDOW)
    (NOTIFY.EVENT TEST.GLOBAL-CONCEPT-NODE-SELECTED-EVENT])
(TEST.LOAD-CONCEPT-SPACE
                                                                     (* sm "16-Aug-85 17:15")
  [LAMBDA (CONCEPT-SPACE-FILE-NAME)
    (PROG (FULL-NAME CONCEPTSPACE)
          (SETQ FULL-NAME (OPENFILE CONCEPT-SPACE-FILE-NAME (QUOTE INPUT)
                                   (QUOTE OLD)))
          (SETQ CONCEPTSPACE (READ FULL-NAME))
                  FULL-NAME
          (TEST.ADD-CONCEPT-SPACE-TO-CONCEPT-SPACES CONCEPTSPACE)
          [PUTPROP (fetch CONCEPTSPACENAME of CONCEPTSPACE)
                  (QUOTE CONCEPTFILE)
                  (PACKFILENAME (QUOTE HOST)
                         (FILENAMEFIELD FULL-NAME (QUOTE HOST))
                          (OUOTE DIRECTORY)
                         (FILENAMEFIELD FULL-NAME (QUOTE DIRECTORY))
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(QUOTE NAME)
                           (FILENAMEFIELD FULL-NAME (QUOTE NAME))
                           (QUOTE EXTENSION)
                           (FILENAMEFIELD FULL-NAME (QUOTE EXTENSION]
           (RETURN FULL-NAME])
(TEST.LOAD-CONCEPT-SPACE-COMMAND
  [LAMBDA NIL
                                                                        (* sm "16-Aug-85 17:52")
    (PROG (FNAME)
           [SETQ FNAME (MKATOM (PROMPTFORWORD "Enter concept space file name :
                                         " NIL NIL PROMPTWINDOW NIL (QUOTE TTY]
           (TEST.LOAD-CONCEPT-SPACE FNAME])
(TEST.LOCAL-EVAL-FORM
                                                                        (* sm "10-Jul-85 13:44")
  [LAMBDA (FORM)
    (PROG (OLD-HELPFLAG RESULT ERR)
           (SETQ OLD-HELPFLAG (GETTOPVAL (QUOTE HELPFLAG)))
           (SETTOPVAL (QUOTE HELPFLAG)
                  NIL)
           (SETQ RESULT (ERRORSET FORM (QUOTE NOBREAK)))
           (SETTOPVAL (QUOTE HELPFLAG)
                  OLD-HELPFLAG)
           [if (NULL RESULT)
               then (SETQ ERR (ERRORN))
                    (SETQ RESULT (LIST (LIST (QUOTE ERROR!)
                                                 (CAR ERR)
                                                 (ERRORSTRING (CAR ERR))
                                                 (CADR ERR]
           (RETURN (CAR RESULT])
(TEST.MAKE-BOUND
  [LAMBDA (VARNAME INIT-VALUE)
                                                                        (* sm "18-Jul-85 10:15")
    (if (NOT (BOUNDP VARNAME))
        then (SET VARNAME INIT-VALUE])
(TEST.MARK-AS-CHANGED
                                                                        (* sm "19-Jul-85 16:24")
    (TEST.MAKE-BOUND (QUOTE TEST.LIST-OF-MODIFIED-TESTS))
    (pushnew TEST.LIST-OF-MODIFIED-TESTS TEST-NUMBER])
(TEST.OBTAIN-DATABASE-WRITE-LOCK
                                                                        (* sm "23-Jul-85 12:44")
  [LAMBDA (TEST-LIST)
    (PROG (LOCK-FILE USER-NAME LOCK-INFO RETURN-INFO CURRENT-USER-INFO)
           (SETQ USER-NAME (MKATOM (FULLUSERNAME)))
(SETQ LOCK-FILE (TEST.OPENFILE-OR-WAIT TEST.NAME-OF-LOCK-FILE (QUOTE BOTH)))
           (if (NULL TEST-LIST)
               then (RETURN NIL))
              (NOT (EOFP LOCK-FILE))
then (SETQ LOCK-INFO (READ LOCK-FILE)))
           [ if
              (EQ TEST-LIST (QUOTE DATABASE))
               then
           (* This case is for the option of locking the entire database. The only locking user that is allowed is the current user)
                    (if (OR (NULL LOCK-INFO)
                            (AND (EQP (LENGTH LOCK-INFO)
                                       1)
                                  (EQ (CAAR LOCK-INFO)
                                      USER-NAME)))
                        then
            * The current user is the only one who lock tests. We can replace the list of tests that he locked with the single word
           DATABASE)
                              [SETQ LOCK-INFO (LIST (LIST USER-NAME (QUOTE DATABASE]
                              (SETQ RETURN-INFO (QUOTE DATABASE))
                      else (SETQ RETURN-INFO NIL))
             elseif (AND (EQP (LENGTH LOCK-INFO)
                        (EQ (CADAR LOCK-INFO)
                             (QUOTE DATABASE)))
            In this case the user wants to lock some tests, but somebody locked the whole data-base;
           If this is the user, we can consider all tests as locked; If this is another user we must consider all tests as unlocked;)
                    (if (EQ (CAAR LOCK-INFO)
                            USER-NAME)
                        then (SETO RETURN-INFO TEST-LIST)
                      else (SETQ RETURN-INFO NIL))
             else (SETQ TEST-LIST (TEST.SETIFY TEST-LIST))
                  [SETQ RETURN-INFO (LDIFFERENCE TEST-LIST (for USER-INFO in LOCK-INFO
```

```
when (NEQ (CAR USER-INFO)
                                                                                 USER-NAME)
                                                                     join (COPY (CDR USER-INFO]
           (* The return-info will contain all the tests of the test list which can be considered as locked after the return of this function.)
                     (SETQ CURRENT-USER-INFO (FASSOC USER-NAME LOCK-INFO))
then [RPLACD CURRENT-USER-INFO (TEST.SETIFY (APPEND RETURN-INFO (CDR CURRENT-USER-INFO)]
                    else (SETQ LOCK-INFO (CONS (CONS USER-NAME RETURN-INFO)
                                                   LOCK-INFO]
           (* At the end of this if clause, the LOCK-INFO variable will contain the current lock information which should be written on
           the lockfile)
           (SETFILEPTR LOCK-FILE 0)
           (PRIN2 LOCK-INFO LOCK-FILE)
           (CLOSEF LOCK-FILE)
           (* There can be garbage left at the end, but this dosn't disturb us since it will not be read anyway.)
           (RETURN RETURN-INFOl)
(TEST.OBTAIN-LOCK-COMMAND
                                                                          (* sm "21-Aug-85 16:05")
  [LAMBDA (WINDOW SELECTED)
    (PROG (CONCEPT-NODE TEST-LIST)
           (SETO CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select concept whoes tests should be locked."))
           (if (NOT SELECTED)
               then [SETQ TEST-LIST (TEST.COLLECT-ALL-TESTS (fetch NODEID of CONCEPT-NODE)
             (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS]
else (SETQ TEST-LIST (TEST.GET-TEST-SELECTION WINDOW CONCEPT-NODE)))
           (SETQ LOCKED-TESTS (TEST.OBTAIN-DATABASE-WRITE-LOCK TEST-LIST))
(if (ILESSP (FLENGTH LOCKED-TESTS)
                       (FLENGTH TEST-LIST)
               then (FLASHWINDOW (TEST.PROMPT-WINDOW WINDOW)
                     (PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
                            T "Tests " LOCKED-TESTS " are now locked by you. The other tests are locked as followed: " T (TEST.GET-LOCKING-USERS (LDIFFERENCE TEST-LIST LOCKED-TESTS)))
                     (if (MENU (create MENU
                                       ITEMS _ (QUOTE (("Send Automatic release requests" T)
                                                          ("Ignore " NIL)))
                         then (TEST.SEND-RELEASE-REQUESTS (LDIFFERENCE TEST-LIST LOCKED-TESTS)))
             else (PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
                          T "All requested tests are locked."])
(TEST.OBTAIN-LOCK-ON-SELECTED-TESTS-COMMAND
                                                                          (* sm "21-Aug-85 15:48")
    (TEST.OBTAIN-LOCK-COMMAND WINDOW T])
(TEST.OPENFILE-OR-WAIT
  [LAMBDA (FILE ACCESS RECOG PARAMETERS OPTIONAL MAX-WAITING-TIME.ms)
                                                                          (* sm "20-Aug-85 16:54")
    (PROG (F)
           (if (NULL MAX-WAITING-TIME.ms)
               then (SETQ MAX-WAITING-TIME.ms 5000))
           (for II from 0 to MAX-WAITING-TIME.ms by 1000 while [TEST.ERRORP (SETQ F (TEST.LOCAL-EVAL-FORM
                                                                                               (LIST (QUOTE OPENFILE)
                                                                                                      (KWOTE FILE)
                                                                                                      (KWOTE ACCESS)
                                                                                                      (KWOTE RECOG)
                                                                                                      (KWOTE PARAMETERS)
                                                                                                      (KWOTE OPTIONAL]
              do (DISMISS 1000)
              (NOT (TEST.ERRORP F))
               then (RETURN F])
(TEST.PERFORM-TEST
  [LAMBDA (TEST TIMES LOCATION TRACE-FILE TRACE-MODE)
                                                                         (* sm "21-Aug-85 14:01")
           (TIMES-THERMOMETER)
    (PROG
           (if (NULL TIMES)
               then (SETQ TIMES (TEST.GET-FIELD-VALUE (QUOTE TIMES)
                                          TEST)))
           (if (NULL TIMES)
               then (SETO TIMES 1))
               (NULL LOCATION)
               then (SETQ LOCATION TEST.DEFAULT-LOCATION))
              (NULL TRACE-FILE)
               then (SETQ TRACE-FILE (OPENFILE TEST.TRACE-FILE-NAME (QUOTE OUTPUT)
                                                 (OUOTE NEW)))
                     (CLOSEF TRACE-FILE))
           (if (NULL TRACE-MODE)
               then (SETQ TRACE-MODE TEST.DEFAULT-TRACE-MODE))
```

```
(if (AND (GREATERP TIMES 1)
                   TEST.DISPLAY-THERMOMETERS)
              then (SETQ TIMES-THERMOMETER (CREATE-THERMOMETER TIMES 0 (CREATEREGION 900 0 100 750)
                                                     "Iterations")))
          [for I1 from 1 to TIMES
             do (if (AND (GREATERP TIMES 1)
                         TEST.DISPLAY-THERMOMETERS)
                     then (UPDATE-THERMOMETER I1 TIMES-THERMOMETER))
                 (PROG (LIST-OF-ACTUAL-ARGUMENTS ARGUMENTS-THERMOMETER)
                        (TEST.EVAL-BEFORE-TEST TEST LOCATION)
                        (SETQ LIST-OF-ACTUAL-ARGUMENTS (TEST.GENERATE-INPUT TEST))
                        (if (AND TEST.DISPLAY-THERMOMETERS (CDR LIST-OF-ACTUAL-ARGUMENTS))
                           then (SETO ARGUMENTS-THERMOMETER (CREATE-THERMOMETER (FLENGTH LIST-OF-ACTUAL-ARGUMENTS
                                                                      (CREATEREGION 800 0 100 750)
                                                                      "input")))
                       [for actual-arguments in list-of-actual-arguments as input-num from 0
                          do (if (AND TEST.DISPLAY-THERMOMETERS (CDR LIST-OF-ACTUAL-ARGUMENTS))
                                  then (UPDATE-THERMOMETER INPUT-NUM ARGUMENTS-THERMOMETER))
                              (PROG (RESULT OUTCOME EXPRESSION-TO-EVALUATE)
                                    (if (EQ TRACE-MODE (QUOTE On))
then (TEST.PRINT-TRACE-INFO TRACE-FILE (LIST (IDATE)
                                                                                        (fetch TESTID of TEST)
                                                                                        ACTUAL-ARGUMENTS)))
                                     (TEST.PRINT-ON-TRACE-FILE (SETO RESULT (TEST.EVALUATE-TESTED-EXPR TEST
                                                                                     ACTUAL-ARGUMENTS LOCATION))
                                            TRACE-FILE T TRACE-MODE)
                                     (TEST.PRINT-ON-TRACE-FILE (SETQ OUTCOME (TEST.EVALUATE-OUTCOME TEST RESULT
                                                                                      ACTUAL-ARGUMENTS LOCATION))
                                            TRACE-FILE T TRACE-MODE)
                                     (TEST.CLEANUP-AFTER-TEST TEST RESULT ACTUAL-ARGUMENTS LOCATION)
                                     (if (EQ TRACE-MODE (QUOTE Off))
                                        then (if (EQ OUTCOME (QUOTE FAILURE))
then (TEST.PRINT-TRACE-INFO TRACE-FILE
                                                              (LIST (IDATE)
                                                                     (fetch TESTID of TEST)
                                                                     ACTUAL-ARGUMENTS RESULT OUTCOME]
                        (if ARGUMENTS-THERMOMETER
                           then (CLOSEW ARGUMENTS-THERMOMETER]
          (if TIMES-THERMOMETER
              then (CLOSEW TIMES-THERMOMETER))
          (RETURN TRACE-FILE])
(TEST.PERFORM-TIMED-EVALUATION
  [LAMBDA (FORM TIMEOUT.ms)
                                                                     (* sm "22-Jul-85 19:24")
    (if TIMEOUT.ms
        then (PROG (PROCESS EVENT TIMER)
                    (SETQ EVENT (CREATE. EVENT))
                    (SETQ TEST.GLOBAL-RESULT-OF-TIMED-EVALUATION NIL) (SETQ TIMER (SETUPTIMER (IPLUS TIMEOUT.ms 1000)))
                    [SETQ PROCESS (ADD.PROCESS (SUBPAIR (QUOTE (FORM EVENT))
                                                        (LIST FORM EVENT)
                                                        (QUOTE (PROGN (SETQ TEST.GLOBAL-RESULT-OF-TIMED-EVALUATION
                                                                              (TEST.LOCAL-EVAL-FORM (QUOTE FORM)))
                                                                       (NOTIFY.EVENT EVENT]
                    (if (EQUAL (AWAIT.EVENT EVENT TIMER T)
                              "{time interval expired}")
                        then (DEL.PROCESS PROCESS)
                             (RETURN (QUOTE (ERROR! TIMEEXPIRED)))
      else (RETURN TEST.GLOBAL-RESULT-OF-TIMED-EVALUATION)))
else (TEST.LOCAL-EVAL-FORM FORM])
(TEST.POP-UP-CONCEPT-SPACES-MENU
                                                                     (* sm "19-Aug-85 09:36")
  [LAMBDA NIL
    (MENU (create MENU
                 ITEMS _ (CONS (QUOTE ("Quit" NIL))
                                 (for C in TEST.CONCEPT-SPACES collect (fetch (CONCEPTSPACE CONCEPTSPACENAME)
                                                                          of (2)))
                 MENUFONT _ BIGFONT])
(TEST.POP-UP-TESTS-MENU
  [LAMBDA (WINDOW CONCEPT-NODE MESSAGE LOCAL-TESTS-ONLY)
                                                                     (* sm "19-Aug-85 10:17")
          (TEST-LIST MENU)
          [SETQ TEST-LIST (if LOCAL-TESTS-ONLY
                                then [fetch TESTS of (FASSOC (fetch NODEID of CONCEPT-NODE)
                                                            (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS]
                             else (TEST.COLLECT-ALL-TESTS (fetch NODEID of CONCEPT-NODE)
                                          (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS]
          (if TEST-LIST
              then (if MESSAGE
                       then (PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
                                    T MESSAGE))
                   [SETO MENU (create MENU
```

```
ITEMS _ (SORT TEST-LIST)
MENUFONT _ BIGFONT
CENTERFLG _ T
MENUROWS _ (FIX (SQRT (FLENGTH TEST-LIST]
                    (RETURN (MENU MENU])
(TEST.PRINT-ON-TRACE-FILE
  [LAMBDA (SEXPR FULLFILENAME RETREAT? TRACE-MODE)
                                                                       (* sm "21-Aug-85 13:43")
    (if (EQ TRACE-MODE (QUOTE On))
    then (OPENFILE FULLFILENAME (QUOTE BOTH))
             (SETFILEPTR FULLFILENAME (if RETREAT?
                                             then (SUB1 (GETEOFPTR FULLFILENAME))
                                           else (GETEOFPTR FULLFILENAME)))
             (PRIN2 SEXPR FULLFILENAME)
              (PRIN1 "
                       ) " FULLFILENAME)
              (CLOSEF FULLFILENAME])
(TEST.PRINT-TEST-OUTCOME
  [LAMBDA (TEST-INFO FILE)
                                                                       (* sm " 3-Jul-85 12:35")
    ----" T .FONT
(TEST.PRINT-TRACE-INFO
  [LAMBDA (TRACE-FILE INFO)
                                                                       (* sm "21-Aug-85 13:30")
    (OPENFILE TRACE-FILE (QUOTE APPEND)
            (QUOTE OLD))
    (PRINTOUT TRACE-FILE T INFO)
    (CLOSEF TRACE-FILE])
(TEST.PROMPT-WINDOW
  [LAMBDA (WINDOW)
                                                                       (* edited: "29-Mar-85 16:07")
    (CAR (WINDOWPROP WINDOW (QUOTE PROMPTWINDOW])
(TEST.RELEASE-DATABASE-WRITE-LOCK
                                                                       (* sm "23-Jul-85 14:08")
  [LAMBDA (TEST-LIST)
    (PROG (LOCK-FILE USER-NAME LOCK-INFO RETURN-INFO CURRENT-USER-INFO NEW-USER-INFO)
           (SETQ USER-NAME (MKATOM (FULLUSERNAME)))
(SETQ LOCK-FILE (TEST.OPENFILE-OR-WAIT TEST.NAME-OF-LOCK-FILE (QUOTE BOTH)))
           (if (NULL TEST-LIST)
               then (RETURN NIL))
             (NOT (EOFP LOCK-FILE))
               then (SETQ LOCK-INFO (READ LOCK-FILE)))
              (EQ TEST-LIST (QUOTE DATABASE))
               then
          (* This case is for the option of locking the entire database. The only locking user that is allowed is the current user)
                    (if (OR (NEO (LENGTH LOCK-INFO)
                                 1)
                            (NEQ (CAAR LOCK-INFO)
                                 USER-NAME)
                            (NEQ (CADAR LOCK-INFO)
                                  (QUOTE DATABASE)))
                        then
            The Data-base Is Not Locked By The Current User -
           So It Can Not Be Released)
                              (SETQ RETURN-INFO NIL)
                      else (SETQ RETURN-INFO (QUOTE DATABASE))
                           (SETQ LOCK-INFO NIL))
             elseif (AND (EQP (LENGTH LOCK-INFO)
                              1)
                        (EQ (CADAR LOCK-INFO)
                             (QUOTE DATABASE)))
           (* The User Wants To Release A Set Of Tests, But The Whole Database Is Locked, Either By The User Or By Another
           Ùser;)
                    (SETO RETURN-INFO NIL)
            else
            * The Default Case: Return-info Will Contain The List Of Tests That Actually Were Held By The User And Are Now
           Released %. Lock-info Will Be Updated And Written To The File)
                  (SETQ TEST-LIST (TEST.SETIFY TEST-LIST))
                  (SETQ CURRENT-USER-INFO (FASSOC USER-NAME LOCK-INFO))
```

(SETTOPVAL (PACK* (QUOTE TEST.DEFAULT.)

```
(if (NULL CURRENT-USER-INFO)
                     then (SETQ RETURN-INFO NIL)
                   else (for test in (cdr current-user-info) do (if (fmemb test test-list)
                                                                      then (push RETURN-INFO TEST)
                                                                    else (push NEW-USER-INFO TEST)))
                        (RPLACD CURRENT-USER-INFO NEW-USER-INFO)))
           (* At the end of this if clause, the LOCK-INFO variable will contain the current lock information which should be written on
           (SETFILEPTR LOCK-FILE 0)
           (PRIN2 LOCK-INFO LOCK-FILE)
          (PRIN1 " " LOCK-FILE)
           (CLOSEF LOCK-FILE)
          (* There can be garbage left at the end, but this dosn't disturb us since it will not be read anyway.)
           (RETURN RETURN-INFO])
(TEST.RELEASE-LOCK-COMMAND
  [LAMBDA (WINDOW SELECTED)
                                                                     (* sm "21-Aug-85 16:15")
    (PROG
          (CONCEPT-NODE TEST-LIST)
           (SETQ CONCEPT-NODE (TEST.WAIT-FOR-SELECTION WINDOW "Select concept whoes tests should be released."))
           (if (NOT SELECTED)
              then [SETQ TEST-LIST (TEST.COLLECT-ALL-TESTS (fetch NODEID of CONCEPT-NODE)
                                             (WINDOWPROP WINDOW (QUOTE TEST.LIST-OF-CONCEPTS]
            else (SETQ TEST-LIST (TEST.GET-TEST-SELECTION WINDOW CONCEPT-NODE)))
          (TEST.RELEASE-DATABASE-WRITE-LOCK TEST-LIST)
(PRINTOUT (TEST.PROMPT-WINDOW WINDOW)
                 T "All requested tests are released."])
(TEST.RELEASE-LOCK-ON-SELECTED-TESTS-COMMAND
    AMBDA (WINDOW)
(TEST.RELEASE-LOCK-COMMAND WINDOW T])
                                                                     (* sm "21-Aug-85 16:10")
(TEST.REMOVE-SUBCONCEPT-LINK
  [LAMBDA (CONCEPT SUBCONCEPT-NAME)
                                                                      (* sm " 2-Jul-85 09:55")
    (replace subconcepts of concept with (remove subconcept-name (fetch subconcepts of concept])
(TEST.REMOVE-SUPERCONCEPT-LINK
                                                                     (* sm " 2-Jul-85 10:00")
  [LAMBDA (CONCEPT SUPERCONCEPT-NAME LIST-OF-CONCEPTS)
    (replace superconcepts of concept with (remove superconcept-name (fetch superconcepts of concept)))
    (if (NULL (fetch SUPERCONCEPTS of CONCEPT))
then (TEST.DELETE-CONCEPT (fetch CONCEPTNAME of CONCEPT)
                    LIST-OF-CONCEPTS1)
(TEST.REPLACE-INSEPCTW-VALUECOMMANDFN
  [LAMBDA (W)
    (for ITEM in (WINDOWPROP W (QUOTE SELECTABLEITEMS)) when (NEQ (CADDDR ITEM)
                                                                      (QUOTE PROPERTY))
       do (RPLACA (CDR ITEM)
                  (QUOTE TEST.INSPECTW.VALUECOMMANDFN])
(TEST.SEND-RELEASE-REQUESTS
                                                                     (* sm "23-Jul-85 15:59")
  [LAMBDA (TEST-LIST)
    (PROG
          (USER-LIST)
           (SETQ USER-LIST (TEST.GET-LOCKING-USERS TEST-LIST))
           (for USER-INFO in USER-LIST do (LAFITE.SENDMESSAGE (CONCAT "Subject: Locks on test files are needed
                                                                        To: "
                                                                              (if (LISTP USER-INFO)
                                                                                   then (CAR USER-INFO)
                                                                                else USER-INFO)
                                                                        cc: "
                                                                        (FULLUSERNAME)
                                                                        You have the locks for tests "
                                                                        (if (LISTP USER-INFO)
                                                                            then (CDR USER-INFO)
                                                                          else " ")
                                                                          . Please release them
                                                                        as soon as possible and let me know when you
                                                                        are done.
                                                                          Thanks ."))
                                           (PRINTOUT T T (CONCAT "Message was sent to " (CAR USER-INFO))
(TEST.SET-DEFAULT-FIELD-VALUE
  [LAMBDA (FIELD-NAME NEW-DEFAULT-VALUE)
                                                                     (* sm " 3-Jul-85 09:59")
```

FIELD-NAME)
NEW-DEFAULT-VALUE])

```
(TEST.SET-TESTS-BUFFER-SIZE
                                                                   (* sm "20-Aug-85 16:05")
  [LAMBDA NIL
    (PROG (STORGE-LEFT)
          (SETQ STORAGE-LEFT (IDIFFERENCE \LASTVMEMFILEPAGE (VMEMSIZE)))
          (RETURN (SETQ TEST.TESTS-BUFFER-SIZE (MAX TEST.MIN-TESTS-BUFFER-SIZE (MIN TEST.MAX-TESTS-BUFFER-SIZE
                                                                                        (FIX (FQUOTIENT STORAGE-LEFT
                                                                                               TEST.AVERAGE-TEST-SIZE
                                                                                                    1)
(TEST.SETIFY
  [LAMBDA (L)
    (PROG (NEW-SET)
          (for one-element in L when (not (member one-element new-set)) do (setq new-set (cons one-element
                                                                                                  NEW-SET)))
          (RETURN NEW-SET])
(TEST.SHADE-TEST
                                                                   (* sm "24-Jul-85 16:36")
  [LAMBDA (TEST-NUMBER WINDOW SHADE)
    (PROG (MENU-WINDOW)
          (SETQ SHADE (OR SHADE BLACKSHADE))
          (if (SETO MENU-WINDOW (WINDOWPROP WINDOW (QUOTE TEST.TESTS-MENU-WINDOW)))
then (SHADEITEM TEST-NUMBER (CAR (WINDOWPROP MENU-WINDOW (QUOTE MENU)))
                          SHADE MENU-WINDOW])
(TEST.STORE-CHANGED-TESTS
                                                                    * sm "19-Jul-85 16:33")
  [LAMBDA NIL
    (for TEST in TEST.LIST-OF-MODIFIED-TESTS do (PRINT (TEST.STORÈ-TEST TEST])
(TEST.STORE-CONCEPT-SPACE
  [LAMBDA (CONCEPTSPACENAME)
                                                                   (* sm "19-Aug-85 12:13")
         (FULL-NAME FILENAME CONCEPTSPACE CANDIDATE-FILE)
          (SETQ CONCEPTSPACE (TEST.GET-CONCEPT-SPACE CONCEPTSPACENAME))
          (SETQ CONCEPTSPACENAME (fetch CONCEPTSPACENAME of CONCEPTSPACE))
          (SETQ CANDIDATE-FILE (OR (GETPROP CONCEPTSPACENAME (QUOTE CONCEPTFILE))
                                     (TEST.CANONICAL-CONCEPT-SPACE-FILE-NAME CONCEPTSPACENAME))))
          (CLRPROMPT)
          [SETQ FILENAME (MKATOM (PROMPTFORWORD (CONCAT "Name of file for storing " CONCEPTSPACENAME ":
                                          (FULLNAME (MKSTRING CANDIDATE-FILE)
                                                 (QUOTE NEW))
                                         NIL PROMPTWINDOW NIL (QUOTE TTY]
          (SETQ FULL-NAME (OPENFILE FILENAME (QUOTE OUTPUT)
                                  (QUOTE NEW)))
          (PRIN2 CONCEPTSPACE FULL-NAME)
          (CLOSEF FULL-NAME)
          (RETURN FULL-NAME1)
(TEST.STORE-CONCEPT-SPACE-COMMAND
                                                                   (* sm "16-Aug-85 17:55")
  [LAMBDA NIL
    (PROG (CNAME)
          (SETO CNAME (TEST.POP-UP-CONCEPT-SPACES-MENU))
          (TEST.STORE-CONCEPT-SPACE CNAME])
(TEST.STORE-TEST
  [LAMBDA (TEST-NUMBER)
                                                                   (* sm "18-Jul-85 09:33")
    (PROG (FULL-FILE-NAME TEST)
          (SETQ TEST (TEST.GET-TEST TEST-NUMBER))
          (if TEST
              then (SETQ FULL-FILE-NAME (OPENFILE (TEST.TEST-NUMBER-TO-FILE-NAME TEST-NUMBER)
                                                 (QUOTE OUTPUT)
                                                 (QUOTE NEW)))
                   (PRIN2 TEST FULL-FILE-NAME)
                   (TEST.UNMARK-AS-CHANGED TEST-NUMBER)
                   (RETURN FULL-FILE-NAME])
(TEST.SWITCH-DISPLAY-MODE-COMMAND
                                                                   (* sm "19-Aug-85 09:46")
  [LAMBDA (WINDOW)
    [WINDOWPROP WINDOW (QUOTE TEST.DISPLAY-TEST-MODE)
                (WINDOWPROP WINDOW (QUOTE TEST.DISPLAY-TEST-MODE)
    (TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH WINDOW)
           WINDOW1)
```

```
[LAMBDA (TEST-NUMBER)
                                                                          (* sm "20-Aug-85 16:57")
           (FILE-NAME FULL-FILE-NAME TEST CURRENT-LENGTH)
    (PROG
           (SETQ FILE-NAME (TEST.TEST-NUMBER-TO-FILE-NAME TEST-NUMBER))
           (SETQ FULL-FILE-NAME (TEST.OPENFILE-OR-WAIT FILE-NAME (QUOTE INPUT)
                                           (OUOTE OLD)))
           (if FULL-FILE-NAME
               then (SETQ TEST (READ FULL-FILE-NAME))
                     (TEST.SET-TESTS-BUFFER-SIZE)
                     (push TEST.LIST-OF-TESTS TEST)
                     (if (GREATERP (SETQ CURRENT-LENGTH (FLENGTH TEST.LIST-OF-TESTS))
                                TEST.TESTS-BUFFER-SIZE)
                         then (RPLACD (NLEFT TEST.LIST-OF-TESTS (ADD1 (IDIFFERENCE TEST.TESTS-BUFFER-SIZE
                                                                                     CURRENT-LENGTH)))
                                      NIL))
                     (RETURN TEST)
             else (PROMPTPRINT (CONCAT "TESTER: File " FILE-NAME " not found. "])
(TEST.TEST-NUMBER-TO-FILE-NAME
                                                                          (* sm "22-Jul-85 14:24")
  [LAMBDA (TEST-NUMBER)
    (PACK (APPEND (LIST TEST.TEST-DATA-BASE-DIRECTORY (QUOTE TEST))
                   (from 1 to (IDIFFERENCE 5 (NCHARS TEST-NUMBER)) collect 0)
                   (LIST TEST-NUMBER])
(TEST.TEST-SELECTED-ON-TEST-MENU-FN
                                                                          (* sm "19-Jul-85 14:59")
  [LAMBDA (ITEM MENU KEY)
    (PROG (WINDOW MAIN-WINDOW)
           (SETQ WINDOW (WFROMMENU MENU))
           (SETQ MAIN-WINDOW (MAINWINDOW WINDOW))
           (COND
               [(EQ ITEM (QUOTE OK))
                (NOTIFY.EVENT (WINDOWPROP MAIN-WINDOW (QUOTE TEST.TEST-SELECTION-ENDED-EVENT]
               (ITEM (COND
                         ((FMEMB ITEM (WINDOWPROP MAIN-WINDOW (QUOTE TEST.SELECTED-TESTS)))
                          (WINDOWDELPROP MAIN-WINDOW (QUOTE TEST.SELECTED-TESTS)
                                  ITEM)
                          (SHADEITEM ITEM MENU WHITESHADE WINDOW))
                         (T (WINDOWADDPROP MAIN-WINDOW (QUOTE TEST.SELECTED-TESTS)
                             (SHADEITEM ITEM MENU BLACKSHADE WINDOW])
(TEST.TEST-SINGLE-TIME
  [LAMBDA (TEST-NUMBER)
                                                                          (* sm "24-Jul-85 15:50")
    (PROG (TEST-COPY TEST-INPUT LIST-OF-SETS SHORT-INPUT TRACE-FILE TEST-OUTCOME) (SETQ TEST-COPY (COPY (TEST.GET-TEST TEST-NUMBER)))
           (SETQ TEST-INPUT (TEST.GET-FIELD-VALUE (QUOTE INPUT)
                                      TEST-COPY))
           [if (EQ (CAR TEST-INPUT)
                   (QUOTE SYSTEMATIC)
               then (EVAL (TEST.GET-FIELD-VALUE (QUOTE EVALBEFORE)
                                   TEST-COPY))
                     (SETQ LIST-OF-SETS (for ONE-SET in (CDR TEST-INPUT) collect (EVAL ONE-SET)))
(if (for one-set in list-of-sets thereis (Not (LISTP ONE-SET)))
then (RETURN (QUOTE (FAILURE "SYSTEMATIC TEST WITH NON-LIST ARGUMENT")))
else (SETQ SHORT-INPUT (for ONE-SET in LIST-OF-SETS collect (CAR ONE-SET)))
           (replace input of test-copy with (kwote short-input] (replace times of test-copy with 1)
           (SETQ TRACE-FILE (OPENFILE TEST.TRACE-FILE-NAME (QUOTE OUTPUT)
                                       (QUOTE NEW)))
           (CLOSEF TRACE-FILE)
           (SETQ TRACE-FILE (TEST.PERFORM-TEST TEST-COPY 1 T TRACE-FILE))
           (OPENFILE TRACE-FILE (QUOTE INPUT)
                   (QUOTE OLD))
           (SETQ TEST-OUTCOME (READ TRACE-FILE))
           (CLOSEF TRACE-FILE)
           (if (LESSP (LENGTH TEST-OUTCOME)
               then [RETURN (LIST (QUOTE FAILURE)
                                     (CONCAT "TEST WAS NOT FINISHED. ONLY " (MKSTRING (LENGTH TEST-OUTCOME))
                                             "ITEMS WERE WRITTEN. TRACE FILE FULL NAME IS : "
                                             (MKSTRING TRACE-FILE]
             else (if [NOT (FMEMB (CAR (CDDDDR TEST-OUTCOME))
                                   (QUOTE (SUCCESS FAILUE)
                       then (RETURN (LIST (QUOTE FAILURE)
                                            (CONCAT "OUTCOME WAS " (CAR (CDDDDR TEST-OUTCOME))
"INSTEAD OF SUCCESS OR FAILURE. ")))
                    else (RETURN (QUOTE (SUCCESS])
(TEST.TOPOLOGICAL-ORDER
  [LAMBDA (SET-OF-TESTS)
                                                                         (* sm "20-Aug-85 17:58")
           (TEST-LINKS ORDERED-LIST)
    (PROG
           [SETQ TEST-LINKS (for TEST in SET-OF-TESTS bind PRETESTS
                                  collect (CONS TEST (PROGN (SETQ PRETESTS (TEST.GET-FIELD-VALUE (QUOTE PRETESTS)
```

```
(TEST.GET-TEST TEST)))
                                                         (TEST.SETIFY (for PRETEST
                                                                         in (APPEND (FASSOC (QUOTE WEAK)
                                                                                           PRETESTS)
                                                                                   (FASSOC (QUOTE STRONG)
                                                                                          PRETESTS))
                                                                         when (FMEMB PRETEST SET-OF-TESTS)
                                                                         collect PRETEST]
          (while TEST-LINKS bind TEMP-LIST do (for T1 in TEST-LINKS when (for PRE in (CDR T1)
                                                                             always (FMEMB PRE ORDERED-LIST))
                                                    (SETQ TEMP-LIST (CONS T1 TEMP-LIST))
                                                     (SETQ ORDERED-LIST (CONS (CAR T1)
                                                                               ORDERED-LIST)))
                                               (SETQ TEST-LINKS (LDIFFERENCE TEST-LINKS TEMP-LIST)))
          (RETURN (REVERSE ORDERED-LIST])
(TEST.UNION-LIST
  [LAMBDA (L)
                                                                   (* sm " 2-Jul-85 12:36")
    (COND
       ((NULL L)
        NIL)
       (T (UNION (CAR L)
                  (TEST. ÚNION-LIST (CDR L])
(TEST.UNMARK-AS-CHANGED
  [LAMBDA
         (TEST-NUMBER)
                                                                   (* sm "18-Jul-85 10:13")
    (TEST.MAKE-BOUND (QUOTE TEST.LIST-OF-MODIFIED-TESTS))
    (SETQ TEST.LIST-OF-MODIFIED-TESTS (REMOVE TEST-NUMBER TEST.LIST-OF-MODIFIED-TESTS])
(TEST.UPDATE-COMMAND
         (WINDOW)
  [LAMBDA
                                                                    (* sm "20-Aug-85 11:25")
    (TEST.DISPLAY-CONCEPT-GRAPH (TEST.CREATE-CONCEPT-SPACE-GRAPH WINDOW)
           WINDOW])
(TEST.UPDATE-EXECUTION-SPEC
  [LAMBDA (ITEM MENU KEY)
                                                                   (* sm "21-Aug-85 12:03")
    (SHADEITEM (WINDOWPROP (WFROMMENU MENU)
                       (QUOTE TEST.SELECTION))
           MENU WHITESHADE)
    (WINDOWPROP (WFROMMENU MENU)
           (QUOTE TEST. SELECTION)
           ITEM)
    (SHADEITEM ITEM MENU BLACKSHADE])
(TEST.WAIT-FOR-SELECTION
  [LAMBDA (WINDOW MESSAGE ALLOW-GLOBAL-SELECTION)
                                                                   (* sm "19-Aug-85 14:42")
    (PROG (WAITS)
          (WINDOWPROP WINDOW (QUOTE TEST.CONCEPT-SELECTED)
                 NIL)
          (SETQ WAITS 0)
(SETQ TEST.WINDOW-OF-LAST-SELECTION NIL)
(printout (TEST.PROMPT-WINDOW WINDOW)
                 T MESSAGE)
     WATT-AGAIN
          (SETQ WAITS (ADD1 WAITS))
          (AWAIT.EVENT TEST.GLOBAL-CONCEPT-NODE-SELECTED-EVENT 1000)
          (COND
             ([OR (NULL TEST.WINDOW-OF-LAST-SELECTION)
                   (AND (NOT ALLOW-GLOBAL-SELECTION)
                        (NEQ TEST.WINDOW-OF-LAST-SELECTION WINDOW))
                   (NULL (WINDOWPROP TEST.WINDOW-OF-LAST-SELECTION (QUOTE TEST.CONCEPT-SELECTED)
              [COND
                 ((GREATERP WAITS 50)
                   (RETURN NIL))
                  ((ZEROP (IMOD WAITS 10))
                   (FLASHWINDOW (TEST.PROMPT-WINDOW WINDOW))
                   (PLAYTUNE (LIST (CONS (ITIMES 100 (IQUOTIENT WAITS 10))
                                         10000)
                                   (CONS (ITIMES 100 (ADD1 (IQUOTIENT WAITS 10)))
                                         10000)
                                   (CONS (ITIMES 100 (IQUOTIENT WAITS 10))
                                         10000]
              (GO WAIT-AGAIN)))
          (RETURN (WINDOWPROP TEST.WINDOW-OF-LAST-SELECTION (QUOTE TEST.CONCEPT-SELECTED])
(RPAQ TEST.EXECUTION-SPECS-EVENT (CREATE.EVENT "EXECUTION-SELECTION-ENDED-EVENT"))
(RPAQ TEST.GLOBAL-CONCEPT-NODE-SELECTED-EVENT (CREATE.EVENT "CONCEPT-NODE-SELECTED-EVENT"))
(RPAQ TEST.CONCEPT-WINDOW-ICON (READBITMAP))
```

```
"NH@O@@@@A@D@@A@@BN@" "NH@H@@@@@A@D@@AOONN@"
                "NH@HOOO@@AOOOHAOONN@"
                        "NH@IH@@@@@@@DA@@BN@"
 "NOOO@@@@@@@BAOONN@" "NH@IH@GOOOOOOAOONN@"
                "NH@HOOL@@@@@@@@@BN@" "NH@H@@GL@AOOH@AOONN@"
 "NH@N@@@GOO@@@@AOONN@" "NH@B@@@@@AOO@@A@@BN@"
                "NH@B@@@L@@@@@AOONN@" "NH@B@@CH@@@@@AOONN@"
 "NH@COON@@@@@@@A@@BN@" "NH@@@@CL@@COL@AOONN@"
                "NH@@@@GOON@@@AOONN@" "NH@@@@@@@COL@A@@BN@"
 (RPAQ TEST.CONCEPT-WINDOW-ICON-MASK (READBITMAP))
(RPAQ TEST.INSPECTW.ICON (READBITMAP))
"ND0000000000MN0000DN0" "ND00000000000FLL0000DN0" "ND000000000EFD00000DN0"
 "ND@@@@@@@@CO@@@@DN@"
 "ND00000000AHCH0000DN0" "ND00000000CLA00000DN0" "ND0000000GFC0000DN0" "ND000000000CF00000DN0"
 "ND@@@@@ALAO@@@@DN@" "ND@@@@@CHCGH@@@DN@"
                "ND@@@@@@GCL@@@DN@" "ND@@@@AN@NAN@@@@DN@"
 "ND@@@@@COAL@N@@@@DN@"
        "ND@@@@GAKH@G@@@DN@"
                "ND@@@@@N@O@@G@@@DN@" "ND@@@@@L@N@@N@@@DN@"
 "ND@@@@@N@N@AL@@@@DN@"
        "ND@@@@GAL@CH@@@@DN@"
                "ND@@@@@CKH@G@@@@DN@"
                        "ND@@@@LAO@@N@@@@DN@"
 "ND@@@@F@N@AL@@@@@DN@"
        "ND@@@@C@@@CH@@@@DN@"
                "ND@@@@AH@@G@@@@DN@" "ND@@@@@L@AN@@@@@DN@"
 "ND@@@@GOOOO@@@@DN@"
        "ND@@@@COOOOH@@@DN@"
                "ND@@@@@AOOOOL@@@@DN@"
                        "ND@@@@CH@@@N@@@@DN@"
 "ND@@@@GOOOOO@@@DN@"
        "ND@@@@OOOOOOH@@@DN@"
                "ND@@@@@OOOOOL@@@DN@"
                        "ND@@@@@@@@@@@@@@DN@"
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                        "ND@@@@@@@@@@@@@DN@"
 "ND@@@@@@@@@@@@DN@" "ND@@@@@@@@@@@@@@DN@"
                "ND@@@@@@@@@@@DN@" "ND@@@@@@@@@@@@DN@"
 (RPAQ TEST.INSPECTW.MASK (READBITMAP))
"00000000000000000000000000000000000
                        "000000000000000000000000000000000000
                "000000000000000000000000000000000000
                (PUTPROPS TESTER COPYRIGHT ("Xerox Corporation" 1985))
```

{MEDLEY}<test>tools>TESTER.;1 28-Jun-2024 18:34:36 -- Listed on 30-Jun-2024 13:57:23 --

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