

File created: 21-Aug-85 16:44:54 {DSK}<LISPPFILES>TESTER>SOURCES>TESTERVAR.S;10

changes to: (VARS TEST.CONCEPT-WINDOW-MENU-ITEMS TESTERVARSCOMS TEST.DEFAULT-TRACE-MODE
TEST.DEFAULT-PRETEST-MODE TEST.DEFAULT-HARDCOPY-MODE TEST.DEFAULT-LOCATION
TEST.MAX-TESTS-BUFFER-SIZE)

previous date: 20-Aug-85 12:37:12 {DSK}<LISPPFILES>TESTER>SOURCES>TESTERVAR.S;6

Read Table: OLD-INTERLISP-FILE

Package: INTERLISP

Format: XCCS

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(RPAQQ **TESTERVARSCOMS**

```
((RECORDS CONCEPT CONCEPTSPACE TEST)
(VARS TEST.AVERAGE-TEST-SIZE TEST.BACKGROUND-MENU-SUBITEMS TEST.CONCEPT-SPACES
TEST.CONCEPT-WINDOW-MENU-ITEMS TEST.DEFAULT-DEPTH TEST.DEFAULT-HARDCOPY-DEVICE
TEST.DEFAULT-HARDCOPY-MODE TEST.DEFAULT-LOCATION TEST.DEFAULT-PRETEST-MODE TEST.DEFAULT-TRACE-MODE
TEST.DEFAULT-EVALAFTER TEST.DEFAULT-EVALBEFORE TEST.DEFAULT-EVALEXPR TEST.DEFAULT-INPUT
TEST.DEFAULT-PRETESTS TEST.DEFAULT-SUCCESSPREDICATE TEST.DEFAULT-TESTCOMMENT TEST.DEFAULT-TESTID
TEST.DEFAULT-TIMEOUT TEST.DEFAULT-TIMES TEST.EVAL-SERVER-HOST (
TEST.GLOBAL-RESULT-OF-TIMED-EVALUATION
NIL)

(TEST.LIST-OF-MODIFIED-TESTS NIL)
(TEST.LIST-OF-TESTS NIL)
TEST.MAX-TESTS-BUFFER-SIZE TEST.MIN-TESTS-BUFFER-SIZE (TEST.NEWPAGE-BEFORE-HARDCOPY-TEST NIL)
(TEST.TESTS-BUFFER-SIZE (TEST.SET-TESTS-BUFFER-SIZE)))
(INITVARS (TEST.DEFAULT-CONCEPT-SPACE-NAME (QUOTE INTERLISPD-SYSTEM))
(TEST.DEFAULT-LOCATION (QUOTE On))
(TEST.DISPLAY-THERMOMETERS T)
(TEST.OBTAIN-LOCK-WHEN-EDIT T)
(TEST.TEST-DATA-BASE-DIRECTORY (QUOTE {ERIS}<TEST>TESTS))
(TEST.TRACE-FILE-NAME (QUOTE {DSK}<LISPPFILES>TESTER-TRACES>TRACE-FILE)))
(CONSTANTS (TEST.NAME-OF-FILE-HOLDING-NEXT-TESTID (QUOTE {ERIS}<TEST>TOOLS>NEXTID))
(TEST.NAME-OF-LOCK-FILE (QUOTE {ERIS}<TEST>TOOLS>LOCK-FILE)))
(GLOBALVARS TEST.AVERAGE-TEST-SIZE TEST.BACKGROUND-MENU-SUBITEMS TEST.CONCEPT-SPACES
TEST.CONCEPT-WINDOW-MENU-ITEMS TEST.DEFAULT-CONCEPT-SPACE-NAME TEST.DEFAULT-DEPTH
TEST.DEFAULT-HARDCOPY-DEVICE TEST.DEFAULT-HARDCOPY-MODE TEST.DEFAULT-LOCATION
TEST.DEFAULT-PRETEST-MODE TEST.DEFAULT-TRACE-MODE TEST.DEFAULT-EVALAFTER TEST.DEFAULT-EVALBEFORE
TEST.DEFAULT-EVALEXPR TEST.DEFAULT-INPUT TEST.DEFAULT-PRETESTS TEST.DEFAULT-SUCCESSPREDICATE
TEST.DEFAULT-TESTCOMMENT TEST.DEFAULT-TESTID TEST.DEFAULT-TIMEOUT TEST.DEFAULT-TIMES
TEST.DISPLAY-THERMOMETERS TEST.EVAL-SERVER-HOST TEST.GLOBAL-RESULT-OF-TIMED-EVALUATION
TEST.LIST-OF-MODIFIED-TESTS TEST.LIST-OF-TESTS TEST.MAX-TESTS-BUFFER-SIZE
TEST.MIN-TESTS-BUFFER-SIZE TEST.NAME-OF-FILE-HOLDING-NEXT-TESTID TEST.NAME-OF-LOCK-FILE
TEST.NEWPAGE-BEFORE-HARDCOPY-TEST TEST.OBTAIN-LOCK-WHEN-EDIT TEST.TEST-DATA-BASE-DIRECTORY
TEST.TESTS-BUFFER-SIZE TEST.TRACE-FILE-NAME)
(P (VARBROWSER [QUOTE ((TEST.EVAL-SERVER-HOST)
(TEST.TEST-DATA-BASE-DIRECTORY)
(TEST.DEFAULT-HARDCOPY-DEVICE)
(TEST.TRACE-FILE-NAME)
(TEST.DEFAULT-HARDCOPY-MODE (No-Hardcopy Failures-Only Hardcopy-All))
(TEST.DEFAULT-PRETEST-MODE (No-Pretests Weak-Links Strong-Links))
(TEST.DEFAULT-TRACE-MODE (On Off))
(TEST.DEFAULT-LOCATION (Local Remote))
(TEST.TRACE-FILE-NAME)
(TEST.DEFAULT-CONCEPT-SPACE-NAME)
(TEST.DEFAULT-DEPTH (NIL 2 3 4 5 6 7 8 9 10))
(TEST.MAX-TESTS-BUFFER-SIZE (2000 1000 750 500 250 200 100 75 50 30 10))
(TEST.MIN-TESTS-BUFFER-SIZE (1 5 10 20 50 100 200 500))
(TEST.OBTAIN-LOCK-WHEN-EDIT (T NIL))
(TEST.DISPLAY-THERMOMETERS (T NIL))
(TEST.NEWPAGE-BEFORE-HARDCOPY-TEST (T NIL)
NIL "Test Variables"))))
```

(DECLARE: EVAL@COMPILE

(RECORD CONCEPT (CONCEPTNAME TESTS SUBCONCEPTS SUPERCONCEPTS))

(RECORD CONCEPTSPACE (CONCEPTSPACENAME ROOTCONCEPT CONCEPTLIST))

(RECORD TEST (TESTID EVALEXPR INPUT SUCCESSPREDICATE TIMES TIMEOUT EVALBEFORE EVALAFTER TESTCOMMENT PRETESTS))

(RPAQQ **TEST.AVERAGE-TEST-SIZE** 1.222222)

```
(RPAQQ TEST.BACKGROUND-MENU-SUBITEMS (SUBITEMS ("Load Concept Space" (TEST.LOAD-CONCEPT-SPACE-COMMAND)
"Prompts for a file name and loads the concept space
stored on this file.")
("Store Concept Space" (TEST.STORE-CONCEPT-SPACE-COMMAND)
"Prompts for a menu of the concept spaces, prompts for a file
name and stores the concept space on the file.")
("Browse concept space" (TEST.BROWSE-CONCEPT-SPACE-COMMAND)
"Prompts for a menu of the concept spaces, and displays a
graph window of the selected concept space.)))
```

(RPAQQ **TEST.CONCEPT-SPACES**

```

  [(INTERLISPD-SYSTEM INTERLISP-D ((INTERLISP-D NIL (TESTER INPUT/OUTPUT DISPLAY COMPILER LIST-PROCESSING
    ARITHMETIC)
      NIL)
    (ARITHMETIC NIL (ARITHMETIC-FUNCTIONS FLOAT-ARITHMETIC
      INTEGER-ARITHMETIC)
      (INTERLISP-D))
    (LIST-PROCESSING NIL NIL (INTERLISP-D))
    (COMPILER NIL NIL (INTERLISP-D))
    (INTEGER-ARITHMETIC NIL (IQUOTIENT IMINUS IPLUS ITIMES BIGNUM FIXP-ARITH
      )
      (ARITHMETIC))
    (FLOAT-ARITHMETIC NIL (FTIMES FPLUS)
      (ARITHMETIC))
    (FIXP-ARITH (10 8 7 6 5)
      NIL
      (INTEGER-ARITHMETIC))
    (BIGNUM (27 26 25 24 23 20 18 13 12 11 9 4)
      NIL
      (INTEGER-ARITHMETIC))
    (ARITHMETIC-FUNCTIONS NIL (IQUOTIENT SUB1 ADD1 IMINUS EQP FTIMES FPLUS
      IPLUS ITIMES)
      (ARITHMETIC))
    (ITIMES (13 10 4)
      NIL
      (INTEGER-ARITHMETIC ARITHMETIC-FUNCTIONS))
    (IPLUS (12 11 9 8 7 6 5)
      NIL
      (INTEGER-ARITHMETIC ARITHMETIC-FUNCTIONS))
    (FPLUS NIL NIL (FLOAT-ARITHMETIC ARITHMETIC-FUNCTIONS))
    (FTIMES NIL NIL (FLOAT-ARITHMETIC ARITHMETIC-FUNCTIONS))
    (DISPLAY NIL (FONTS WINDOW-SYSTEM)
      (INTERLISP-D))
    (WINDOW-SYSTEM NIL (WINDOW-FUNCTIONS)
      (DISPLAY))
    (WINDOW-FUNCTIONS NIL (SHAPEW)
      (WINDOW-SYSTEM))
    (SHAPEW (14)
      NIL
      (WINDOW-FUNCTIONS))
    (FONTS NIL (FONTS-FUNCTIONS)
      (DISPLAY))
    (FONTS-FUNCTIONS NIL (FONTCREATE)
      (FONTS))
    (FONTCREATE (16)
      NIL
      (I/O-FUNCTIONS FONTS-FUNCTIONS))
    (INPUT/OUTPUT NIL (I/O-FUNCTIONS DSK-FILING NS-FILING)
      (INTERLISP-D))
    (NS-FILING (3 2 1)
      NIL
      (INPUT/OUTPUT))
    (DSK-FILING NIL NIL (INPUT/OUTPUT))
    (I/O-FUNCTIONS NIL (FONTCREATE PRIN2 READ)
      (INPUT/OUTPUT))
    (READ (3 2 1)
      NIL
      (I/O-FUNCTIONS))
    (PRIN2 (3 2 1)
      NIL
      (I/O-FUNCTIONS))
    (TESTER NIL (RANDOM-GENERATOR TESTS REMOTE-EVAL CONCEPT-SPACE)
      (INTERLISP-D))
    (CONCEPT-SPACE NIL NIL (TESTER))
    (REMOTE-EVAL NIL NIL (TESTER))
    (TESTS NIL (1-100)
      (TESTER))
    (RANDOM-GENERATOR NIL NIL (TESTER))
    (1-100 (21 19)
      NIL
      (TESTS))
    (EQP (20)
      NIL
      (ARITHMETIC-FUNCTIONS))
    (IMINUS (24 23)
      NIL
      (INTEGER-ARITHMETIC ARITHMETIC-FUNCTIONS))
    (ADD1 (26 25)
      NIL
      (ARITHMETIC-FUNCTIONS))
    (SUB1 (26 25)
      NIL
      (ARITHMETIC-FUNCTIONS))
    (IQUOTIENT (27)
      NIL
      (INTEGER-ARITHMETIC ARITHMETIC-FUNCTIONS])

```

(RPAQQ **TEST.CONCEPT-WINDOW-MENU-ITEMS**

```
[("Copy subtree" TEST.COPY-SUBTREE-COMMAND)
("Add concept" TEST.ADD-CONCEPT-COMMAND)
("Delete concept" TEST.DELETE-CONCEPT-COMMAND)
("Add link" TEST.ADD-LINK-COMMAND)
("Delete link" TEST.DELETE-LINK-COMMAND)
("Add test" TEST.ADD-TEST-COMMAND)
("Delete test" TEST.DELETE-TEST-COMMAND)
("Edit test" TEST.EDIT-TEST-COMMAND)
("Display" NIL "select subitem to perform display operations." (SUBITEMS ("Display tests on/off"
TEST.SWITCH-DISPLAY-MODE-COMMAND
)
("Browse subtree"
TEST.BROWSE-SUBTREE-COMMAND
"Asks for a node selection
and creates a browser for
the concept space for which
the selected node is the
root")
("Change depth"
TEST.CHANGE-DEPTH-COMMAND
"Will prompt for an integer
which will be the new depth
of the displayed concept
space lattice")
("Update" TEST.UPDATE-COMMAND
"Recomputes the graph and
display it.)))
("Execute tests" TEST.EXECUTE-TESTS "Executes all the tests of the selected concept. "
(SUBITEMS ("All tests" TEST.EXECUTE-TESTS "Executes all the tests of the selected concept. ")
("Selected tests" TEST.EXECUTE-SELECTED-TESTS-COMMAND "Lets the user to select tests of
the selected concept, and executes these tests.)))
("Hardcopy tests" TEST.HARDCOPY-ALL-TESTS-COMMAND NIL (SUBITEMS ("All tests"
TEST.HARDCOPY-ALL-TESTS-COMMAND)
("Selected tests"
TEST.HARDCOPY-SELECTED-TESTS-COMMAND
)))
("data base" NIL "Select on of the submenus" (SUBITEMS ("Obtain Lock" TEST.OBTAIN-LOCK-COMMAND "Will try
to obtain locks on all the tests of the
selected concept" (SUBITEMS ("All tests"
TEST.OBTAIN-LOCK-COMMAND
"Will try to
obtain locks
on all the
tests of the
selected
concept")
("Selected
tests"
TEST.OBTAIN-LOCK-ON-SELECTED-TESTS-COMMAND
"Will try
to obtain
locks on
the
selected
tests of
the
selected
concept"))
)
("Release lock" TEST.RELEASE-LOCK-COMMAND "Will
release all the locks that the user has on
the tests of the selected test."
(SUBITEMS ("All tests"
TEST.RELEASE-LOCK-COMMAND
"Will release all the locks
that the user has on the
tests of the selected
test.")
("Selected tests"
TEST.RELEASE-LOCK-ON-SELECTED-TESTS-COMMAND
"Will the locks that the user
has on the selected tests of
the selected concept"]])
```

(RPAQQ **TEST.DEFAULT-DEPTH** NIL)

(RPAQQ **TEST.DEFAULT-HARDCOPY-DEVICE** {LPT})

(RPAQQ **TEST.DEFAULT-HARDCOPY-MODE** Hardcopy-All)

(RPAQQ **TEST.DEFAULT-LOCATION** Local)

(RPAQQ **TEST.DEFAULT-PRETEST-MODE** Weak-Links)

```

{MEDLEY}<test>tools>TESTERSVARS.;1

(RPAQQ TEST.DEFAULT-TRACE-MODE On)

(RPAQQ TEST.DEFAULT.EVALAFTER [LAMBDA (RES ARGS)])

(RPAQQ TEST.DEFAULT.EVALBEFORE NIL)

(RPAQQ TEST.DEFAULT.EVALEXPR NIL)

(RPAQQ TEST.DEFAULT.INPUT (QUOTE DUMMYARG1 DUMMYARG2))

(RPAQQ TEST.DEFAULT.PRETESTS ((WEAK)
                               (STRONG)))

(RPAQQ TEST.DEFAULT.SUCCESSPREDICATE [LAMBDA (RES ARGS)
                                       (IF THEN (QUOTE SUCCESS)
                                               ELSE
                                               (QUOTE FAILURE)])

(RPAQQ TEST.DEFAULT.TESTCOMMENT (* * Describe in short what the test does))

(RPAQQ TEST.DEFAULT.TESTID 0)

(RPAQQ TEST.DEFAULT.TIMEOUT [LAMBDA (ARGS)
                              1000])

(RPAQQ TEST.DEFAULT.TIMES 1)

(RPAQQ TEST.EVAL-SERVER-HOST NIL)

(RPAQQ TEST.GLOBAL-RESULT-OF-TIMED-EVALUATION NIL)

(RPAQQ TEST.LIST-OF-MODIFIED-TESTS NIL)

(RPAQQ TEST.LIST-OF-TESTS NIL)

(RPAQQ TEST.MAX-TESTS-BUFFER-SIZE 500)

(RPAQQ TEST.MIN-TESTS-BUFFER-SIZE 20)

(RPAQQ TEST.NEWPAGE-BEFORE-HARDCOPY-TEST NIL)

(RPAQ TEST.TESTS-BUFFER-SIZE (TEST.SET-TESTS-BUFFER-SIZE))

(RPAQ? TEST.DEFAULT-CONCEPT-SPACE-NAME (QUOTE INTERLISPD-SYSTEM))

(RPAQ? TEST.DEFAULT-LOCATION (QUOTE On))

(RPAQ? TEST.DISPLAY-THERMOMETERS T)

(RPAQ? TEST.OBTAIN-LOCK-WHEN-EDIT T)

(RPAQ? TEST.TEST-DATA-BASE-DIRECTORY (QUOTE {ERIS}<TEST>TESTS))

(RPAQ? TEST.TRACE-FILE-NAME (QUOTE {DSK}<LISPPFILES>TESTER-TRACES>TRACE-FILE))

(DECLARE: EVAL@COMPILE

(RPAQQ TEST.NAME-OF-FILE-HOLDING-NEXT-TESTID {ERIS}<TEST>TOOLS>NEXTID)

(RPAQQ TEST.NAME-OF-LOCK-FILE {ERIS}<TEST>TOOLS>LOCK-FILE)

(CONSTANTS (TEST.NAME-OF-FILE-HOLDING-NEXT-TESTID (QUOTE {ERIS}<TEST>TOOLS>NEXTID))
           (TEST.NAME-OF-LOCK-FILE (QUOTE {ERIS}<TEST>TOOLS>LOCK-FILE)))
)

(DECLARE: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS TEST.AVERAGE-TEST-SIZE TEST.BACKGROUND-MENU-SUBITEMS TEST.CONCEPT-SPACES
            TEST.CONCEPT-WINDOW-MENU-ITEMS TEST.DEFAULT-CONCEPT-SPACE-NAME TEST.DEFAULT-DEPTH
            TEST.DEFAULT-HARDCOPY-DEVICE TEST.DEFAULT-HARDCOPY-MODE TEST.DEFAULT-LOCATION TEST.DEFAULT-PRETEST-MODE
            TEST.DEFAULT-TRACE-MODE TEST.DEFAULT.EVALAFTER TEST.DEFAULT.EVALBEFORE TEST.DEFAULT.EVALEXPR
            TEST.DEFAULT.INPUT TEST.DEFAULT.PRETESTS TEST.DEFAULT.SUCCESSPREDICATE TEST.DEFAULT.TESTCOMMENT
            TEST.DEFAULT.TESTID TEST.DEFAULT.TIMEOUT TEST.DEFAULT.TIMES TEST.DISPLAY-THERMOMETERS
            TEST.EVAL-SERVER-HOST TEST.GLOBAL-RESULT-OF-TIMED-EVALUATION TEST.LIST-OF-MODIFIED-TESTS
            TEST.LIST-OF-TESTS TEST.MAX-TESTS-BUFFER-SIZE TEST.MIN-TESTS-BUFFER-SIZE
            TEST.NAME-OF-FILE-HOLDING-NEXT-TESTID TEST.NAME-OF-LOCK-FILE TEST.NEWPAGE-BEFORE-HARDCOPY-TEST
            TEST.OBTAIN-LOCK-WHEN-EDIT TEST.TEST-DATA-BASE-DIRECTORY TEST.TESTS-BUFFER-SIZE TEST.TRACE-FILE-NAME)
)

(VARBROWSER [QUOTE ((TEST.EVAL-SERVER-HOST)
                    (TEST.TEST-DATA-BASE-DIRECTORY)
                    (TEST.DEFAULT-HARDCOPY-DEVICE)
                    (TEST.TRACE-FILE-NAME)
                    (TEST.DEFAULT-HARDCOPY-MODE (No-Hardcopy Failures-Only Hardcopy-All))
                    (TEST.DEFAULT-PRETEST-MODE (No-Pretests Weak-Links Strong-Links))
                    (TEST.DEFAULT-TRACE-MODE (On Off))
                    (TEST.DEFAULT-LOCATION (Local Remote))

```

```
(TEST.TRACE-FILE-NAME)
(TEST.DEFAULT-CONCEPT-SPACE-NAME)
(TEST.DEFAULT-DEPTH (NIL 2 3 4 5 6 7 8 9 10))
(TEST.MAX-TESTS-BUFFER-SIZE (2000 1000 750 500 250 200 100 75 50 30 10))
(TEST.MIN-TESTS-BUFFER-SIZE (1 5 10 20 50 100 200 500))
(TEST.OBTAIN-LOCK-WHEN-EDIT (T NIL))
(TEST.DISPLAY-THERMOMETERS (T NIL))
(TEST.NEWPAGE-BEFORE-HARDCOPY-TEST (T NIL])
```

NIL "Test Variables")

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CONSTANT INDEX

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