This msg is stored on {eris}spcore>internal>library>do-test.tedit The tester is on {eris}pcore>internal>library>do-test.dcom.

The main entries are the following:

```
(DO-TEST name forms)
```

A test succeeds if the final *form* returns a non-nil result. *Name* is just the name which can be an atom or string; strings are preferred. Forms are presumed to be read with the Common Lisp reader in package XCL-TEST, which uses LISP and XCL. If a test fails or an error occurs during evaluation, a message is printed to *ERROR-OUTPUT*.

```
(DO-TEST-GROUP name&options forms)
```

For associating a group of tests. For instance, a group of tests may all require the same setup and cleanup. If there are any options (see below) then the CAR of *name&options* is the name and the CDR is a keyword/value list. All *forms* must be DO-TEST forms.

```
(EXPECT-ERRORS error-types forms)
```

Error-types is a list of errors that may occur while executing the *forms*. If one of the listed errors occurs, EXPECT-ERRORS returns (values t error-that-occurred), otherwise NIL. Normal use of this form is:

```
(DO-TEST-FILE filename)
```

Reads and executes a file of tests. All forms in the file are read before any are executed. The file should be clear text (clearput in TEdit) and terminate with a STOP. The format for test names is Chap#[-sec#[-subsec#]]-comment.TEST

```
(CL-READFILE filename)
```

Reads all forms in *filename* and returns a list of them. This function is used by DO-TEST-FILE to read test files; test writers who want to see if their files are syntactically valid should first see if CL-READFILE will read them, then see if DO-TEST-FILE will execute them.

Calls DO-TEST-FILE on each file that matches *patterns*, which is a list of directory patterns, and prints the results to a new version of a file named *results*. If *results* is T, results are printed to the window where DO-ALL-TESTS is running. The header of the results file is a message of the date and time the tests are being run and the MAKESYSDATE of the sysout; if *sysout-type* is supplied, a line for it goes out too. If *resume* is non-NIL, DO-ALL-TESTS attempts to resume an interrupted test sequence, appending the results onto the latest version of *results*.

```
TEST-SETQ, TEST-DEFUN, TEST-DEFMACRO
```

These work like SETQ, DEFUN, and DEFMACRO, except that if they are executed within a DO-TEST-GROUP, their effects are manually undone (old values are saved and then restored) upon leaving the DO-TEST-GROUP. Use these in :BEFORE forms that a whole group of DO-TESTs want to see. DON'T use TEST-SETQ on locally-bound variables or in loops.

Relevant variables:

```
*TEST-MODE*
```

Default is :batch, which means to report test failures and errors on *ERROR-OUTPUT* (which is usually a file), and continue. Other values possible are:

:interactive which means to print a message before running each test, print another message for test failures, and produce a break window on errors.

:batch-verbose which means to generate all the messages of :interactive and do not break on errors.

```
*TEST-BATCH-RESULTS*
```

Defaults to "{eris}<lispcore>cml>test>test-results"

```
*TEST-FILE-PATTERN*
```

 $Defaults\ to\ ("\{eris\}< lispcore> cml> test>*.test;"\ "\{eris\}< lispcore> cml> test>*.x")\ which\ runs\ all\ the\ internal\ tests.$

```
*TEST-COMPILE*
```

If this switch is non-nil, DO-TEST compiles its forms before testing them. DO-ALL-TESTS will print a message in its header if this switch is on.

```
*ALL-FILES-REMAINING*
```

While DO-ALL-TESTS is running, this variable contains a list of all the files remaining to be processed; files are removed from it AFTER they are read and executed. To restart a test run that somehow crashes the test driver, first clean up whatever blew up the run (if necessary, dump *ALL-FILES-REMAINING* to a file and get a new sysout), then do

```
(DO-ALL-TESTS : RESUME T [:RESULTS "wherever"]).
```

Options to do-test-group.