### **]DTest Cheatsheet**

## .dyalogtest:

```
DyalogTest: 1.84
[SuccessValue: ...]
[Setup: ...]
Test: ...
[Teardown: ...]
```

# Test function

```
r+mytest sink
A test stuff

OR

{
[MsgVar]⊢x Assert y:
...
}
```

Test functions need to return an empty string to indicate success. If you want to use 0 or other values, have a look at the "Success Value" modifier or add it to the .dyalogtest suite.

### Test DSL

### [docvar]-x Assert y OR x Check y

Returns 1 if the assertion that  $x\equiv y$  is wrong, 0 otherwise.

If -halt modifier is set, halts execution if check fails.

Additional comments on line or immediately before or after. If comments are computed, use docvar-x Assert y

#### x IsNotElement y

test  $\sim x \in y$  and halts execution if it isn't.

### x Because y

concatenates y to global "r" and returns x.

=> "Syntax sugar" to enable statements like:

### n+[id] ##.RandomVal x [y]

generates y (default=1) random values identified by "id" (like [y]?x).

# ]DTest {.dyalogtest | .aplf | .dyalog | path} -modifiers

#### Modifiers:

- -halt: halts execution when Check or Assert fails (so that you can examine the ws)
- -trace: trace into setup(s) and tests()
- -verbose: show text logged with Log. (test fns should access ##.verbose if they want to support this!)
- -quiet[=0|1]: only shows error messages (1) or all messages (0)
- -filter=aaa: select tests to execute (supports \* and ?)
- loglvl=n: controls the log files DTest creates. Value is a sum of the values...

```
1={base.log} - Errors
```

2={base}.warn.log - Warnings

4=[base].info.log - Informations

8={base}.session.log - Session log

16={base}.session.log - Session log ONLY for failing tests

32={base}.log.json - machine-readable results ("rc"=20: Success, 21=Failure)

- -off[=0|1]: do (1) or do not (0) exit APL after running tests (also writes logfiles if required)
- -SuccessValue=nnn: the value that successful tests need to return

### Useful variables for tests

##.TESTSOURCE: the path of the current test

##.DYALOG: interpreter's home-directory

##.DyaVersion: interpreter's version number

## Info about the platform (boolean flags)

```
##._isClassic/##._is32bit/##._is64bit
##._isWin/##._isLinux/##._isMacOS
```

# Code Coverage

In the .dyalogtest file: CodeCoverage\_Subject: #.ns[,#.ns2] use "-coverage" modifier when running ]DTest

