Package 'ikws.debug'

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Title Debug Functions by Iris

Description Debug Functions by Iris.

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Contents

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ikws.debug-package   *Debug Functions by Iris*

Description

mkPROMISE() makes a unevaluated promise, mkEVPROMISE() makes an evaluated promise.

PRINFO() returns information about a promise object.

unlockEnvironment() unlocks an environment and possibly its bindings.

Author(s)

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mkPROMISE   *Make a Promise*

Description

mkPROMISE() makes a unevaluated promise, mkEVPROMISE() makes an evaluated promise.

Usage

```
mkPROMISE(expr, envir = parent.frame(1))
mkEVPROMISE(expr, value)
```

Arguments

expr	expression of the promise.
envir	the environment in which expr is to be evaluated.
value	value of the promise.

Value

A promise object, which would usually be directly assigned to a variable.

PRINFO   *Inspect a Promise*

Description

PRINFO() returns information about a promise object.

Usage

```
PRINFO(x, pos = -1, envir = as.environment(pos), inherits = TRUE,
       evaluated = FALSE)
```

Arguments

x	an object name, given as a character string or a symbol.
pos, envir	where to look for the object; if omitted search as if the name of the object appeared unquoted in an expression.
inherits	should the enclosing frames of the environment be searched?
evaluated	should x be evaluated?

Value

A list with the following components:

PRCODE	expression to be evaluated, possibly a bytecode.
PRENV	environment in which PRCODE will be evaluated. NULL if the promise has already been evaluated.
PREXPR	if PRCODE is a bytecode, then the deparsed version of PRCODE, otherwise identical to PRCODE.
PRSEEN	integer; has the promise been seen before? 0 means unseen, 1 means has been seen and re-evaluating it will throw an error "promise already under evaluation: recursive default argument reference or earlier problems?", 2 means has been seen but was interrupted and re-evaluating it will throw a warning "restarting interrupted promise evaluation".

If the promise has been evaluated, it will also have the following component:

PRVALUE	value returned by evaluating PRCODE in PRENV.

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unlockEnvironment *Binding and Environment Unlocking*

Description

unlockEnvironment() unlocks an environment and possibly its bindings.

Usage

```
unlockEnvironment(env, bindings = FALSE)
```

Arguments

env	an environment.
bindings	logical specifying whether bindings should be unlocked.

Value

NULL, invisibly.

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