

PLN CDR draft: Issue 1

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1 Issue 1 ([ADD-/REMOVE-]PACKAGE-LOCAL-NICKNAME return values)

1.1 Description

Return values of `add-package-local-nickname` and `remove-package-local-nickname` are inconsistent. The first one always returns *designated package*, while the second one returns *true* (generalized boolean) if a nickname was removed.

Moreover, there is no consensus among current implementations as to what the second function (`remove-package-local-nickname`) should return.

1.2 Examples

```
(defpackage #:foo (:use))
(defpackage #:bar (:use))

(add-package-local-nickname '#:nick '#:bar '#:foo)
; => #<PACKAGE "FOO"> (sbcl, ccl, ecl, acl, abcl, clasp, lispworks)
(add-package-local-nickname '#:nick '#:bar '#:foo)
; => #<PACKAGE "FOO"> (sbcl, ccl, ecl, acl, abcl, clasp, lispworks)
(remove-package-local-nickname '#:nick '#:foo)
; => T (sbcl, ccl, ecl, acl, clasp)
; => #<PACKAGE "BAR"> (abcl)
; => NIL (lispworks)
(remove-package-local-nickname '#:nick '#:foo)
; => NIL (sbcl, ccl, ecl, acl, abcl, clasp, lispworks)
```

1.3 Current behavior

sbcl, ccl, ecl, acl, abcl, clasp, lispworks: `add-package-local-nickname` always returns *designated package*.

sbcl, ccl, ecl, acl, clasp: `remove-package-local-nickname` returns T if a nickname was removed, and NIL otherwise.

abcl: `remove-package-local-nickname` if a nickname was removed, returns *true* (more specifically - the package that was nicknamed by that nickname), and NIL otherwise.

lispworks: `remove-package-local-nickname` always returns NIL.

1.4 Proposal DESIGNATED-PACKAGE-IF-SUCCESSFUL

- `add-package-local-nickname` should return *designated package* if a new nickname was added and NIL otherwise, if the nickname already existed.
- `remove-package-local-nickname` should return *designated package* if a nickname was removed and NIL otherwise.

1.5 Proposal ALWAYS-T

Similar to `use-package` and `unuse-package`:

- `add-package-local-nickname` should always return T.
- `remove-package-local-nickname` should always return T.

1.6 Proposal ELIMINATE-GENERALIZED_{BOOLEAN}

- `add-package-local-nickname` should always return *designated package*.
- `remove-package-local-nickname` should return T if a nickname was removed and NIL otherwise.