PLN CDR draft: Issue 8

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1 Issue 8 (Interaction with FORMAT)

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1.1 Description

It is not clear how *local nicknames* should affect format's \~// directive.

First, it would be inconvinient if it wouldn't be possible to use *local nicknames* with the $\$ ^// directive.

Secondly, it would be unintuitive if the function used would depend on the *current package* at the **execution** time. This also might break [existing] code, if a local nickname in the *current package* shadows a package that contains a function used by a control string in another function.

Finally, if the call to format is not compiled, it is hard to impossible to find the function using *local nicknames* of the package that was the *current package* at the **compile** time.

1.2 Examples

```
(defpackage #:foo-a (:use) (:export #:ff))
(defpackage #:foo-b (:use) (:export #:ff))

(defun foo-a:ff (stream &rest args)
    (declare (ignore args))
    (format stream "FOO-A:FF"))

(defun foo-b:ff (stream &rest args)
    (declare (ignore args))
    (format stream "FOO-B:FF"))

(defpackage #:bar-a
    (:use #:cl)
    (:local-nicknames (#:nick #:foo-a)))

(defpackage #:bar-b
    (:use #:cl)
    (:local-nicknames (#:nick #:foo-b)))

(in-package #:bar-a)
```

1.3 Proposal NO-LOCAL-NICKNAMES

format's \"// directive must **not** use *local nicknames* of any package when looking up the specified symbol.

Rationale: In the spirit of how when the package is not specified, the symbol is not looked up in the *current package*, but instead in the #:CL-USER package; the *tilde slash* directive should not depend on the value of *package* at any time. Specifying it to use *local nicknames* of the #:CL-USER package instead would risk breaking the existing code when adding local nicknames to that package.

1.4 Links

See CLHS 22.3.5.4 Tilde Slash: Call Function.