

Re: How to save lists containing functions to disk

Source: <http://coding.derkeiler.com/Archive/Lisp/comp.lang.lisp/2005-11/msg01510.html>

- *From:* Pascal Bourguignon <spam@xxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 23 Nov 2005 11:05:10 +0100
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Pascal Bourguignon <spam@xxxxxxxxxxxxxxxxxxx> writes:

```
> But environments are opaque in Common Lisp, so you cannot do anything
> portably. If you have the good taste of using an implementation that
> gives an API to access the environment, then you could generate
> additionnal functions in the closure to let you retrieve the values in
> the closure at run-time, when you print the function; something like:
>
>
> (cl:defmacro defun (&environment env name args &body body)
> `(progn
> (compile (cl:defun ,name ,args ,@body))
> (setf (gethash (fdefinition ',name) *function-sources*)
> (lambda ()
> (list 'let
> ,(cons 'list
> (%map-env ; IMPLEMENTATION SPECIFIC!
> (lambda (var)
> (list 'list (list 'quote var) var))
> env))
> '(defun ,name ,args ,@body))))
> ',name))
```

I forgot to mention, for more fun, the environment includes macrolets, lexical functions (flet & labels), and symbol-macrolets, if you want to be complete...

—
Pascal Bourguignon <http://www.informatimago.com/>

You never feed me.

Perhaps I'll sleep on your face.

That will sure show you.

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- *References:*
 - ◆ [How to save lists containing functions to disk](#)
◇ *From:* javuchi

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◆ **Re: How to save lists containing functions to disk**

◇ From: Pascal Bourguignon

- Prev by Date: **Re: outputting #Tab the C way**
- Next by Date: **Re: asdf-install problem**
- Previous by thread: **Re: How to save lists containing functions to disk**
- Next by thread: **Re: How to save lists containing functions to disk**
- Index(es):
 - ◆ **Date**
 - ◆ **Thread**