LOOPS provides two special versions of message sending that start a separate process to run LOOPS methods. These are \leftarrow **Process** and \leftarrow **Process!** which are analogous to \leftarrow and \leftarrow **!**.

(←Process obj sel arg1 ... argn)

[Macro]

Purpose: Starts a new process to run the selected method on the object, obj.

Behavior: The method indicated by *sel* is run in a separate process for the given

instance or class, obj. See the Interlisp-D Reference Manual for a discussion

of processes.

Arguments: *obj* A LOOPS object.

sel Name of the method to be executed as a process.

arg1 ... argn

Arguments for the method specified in sel.

Returns: Pointer to a process data type.

Example: Assume the method **ClockTime** is added to the class **LCD**, as follows:

ClockTime takes two arguments: WaitTime, the wait time between updates of the LCD reading, and DisplaySeconds?, a flag used to determine if seconds are to be displayed on the LCD. ClockTime runs an infinite loop which sets the LCD reading, updates the LCD display, and blocks the ClockTime loop to allow other system processes to run. The command

```
(←Process ($ LCDInstance1) ClockTime 60000)
```

adds the process **ClockTime** to the process list and **(\$ LCDInstance1)** becomes a digital clock which updates itself every minute.

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(←Process! obj sel arg1 argn)

[Macro]

Purpose: Starts a new process to run the selected method on the object obj. Like

←**Process**, except the argument *sel* is evaluated.

Behavior: Evaluates sel returns a selector for a method of obj. This method is run on a

separate process for the given instance or class, *obj.*

Arguments: *obj* A LOOPS object.

sel Name of the method to be executed as a process.

arg1 argn

Arguments needed for the method.

Returns: Pointer to the process data type.

Example: Assume the variable **LCDClock** is set to **ClockTime**, which is the method

added to the **LCD** class as described for ←**Process**. The command

(←Process! (\$ LCDInstance1) LCDClock 2000 T)

adds the process LCDClock to the process list and (\$ LCDInstance)

becomes a digital clock with a seconds display which updates itself every two

seconds.

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