

# **Package EASYCRON**

## **Version 3.10.18**

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# 1. Documentation For Package EASYCRON

## 1.1. EASYCRON - Time-based Job Scheduling

This package was initiated by Stefan Manske email: [fli4l@stephan.manske-net.de](mailto:fli4l@stephan.manske-net.de) and adapted to version 2.1 by the fli4l-team.

### 1.1.1. Configuration

By using `OPT_EASYCRON` it is possible to execute commands at designated times by adding them to the config-file.

The following entries are supported:

**OPT\_EASYCRON** `OPT_EASYCRON='yes'` activates the package

Default setting: `OPT_EASYCRON='no'`

**EASYCRON\_MAIL** Avoid the sending of unwanted mails by `cron`.

Default setting: `EASYCRON_MAIL='no'`

**EASYCRON\_N** The number of commands to be executed by `cron`.

**EASYCRON\_x\_CUSTOM** Those familiar with the settings in `crontab` may define additional settings for each entry (like `MAILTO`, `PATH`...). Entries have to be separated by `\\`. You should be really familiar with `cron` to use this option.

Default setting: `EASYCRON_CUSTOM=''`

**EASYCRON\_x\_COMMAND** Specify the command to be executed in `EASYCRON_x_COMMAND`, for example:

```
EASYCRON_1_COMMAND='echo 1 '>' /dev/console'
```

**EASYCRON\_x\_TIME** specifies execution times according to the `cron` syntax.

### 1.1.2. Examples

- The computer outputs “Happy new year!” to the console

```
EASYCRON_1_COMMAND = 'echo Happy new year! > /dev/console'
EASYCRON_1_TIME     = '0 0 31 12 *'
```

- `xxx` will be executed Monday to Friday from 7AM to 8PM Uhr every full hour.

```
EASYCRON_1_COMMAND = 'xxx'
EASYCRON_1_TIME     = '0 7-20 0 * 1-5'
```

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- The router terminates the DSL internet connection each night at 03:40AM and reestablishes it after 5 seconds. Device names to be used: pppoe, ippp[1-9], ppp[1-9].

```
EASYCRON_1_COMMAND = 'fli4lctrl hangup pppoe; sleep 5; fli4lctrl dial pppoe'
EASYCRON_1_TIME     = '40 3 * * *'
```

Further informations on the cron syntax can be found here (german)

- <http://www.pro-linux.de/artikel/2/146/der-batchdaemon-cron.html>
- [http://de.linwiki.org/wiki/Linuxfibel\\_-\\_System-Administration\\_-\\_Zeit\\_und\\_Steuerung#Die\\_Datei\\_crontab](http://de.linwiki.org/wiki/Linuxfibel_-_System-Administration_-_Zeit_und_Steuerung#Die_Datei_crontab)
- <http://web.archive.org/web/20021229004331/http://www.linux-magazin.de/Artikel/ausgabe/1998/08/Cron/cron.html>
- [http://web.archive.org/web/20070810063838/http://www.newbie-net.de/anleitung\\_cron.html](http://web.archive.org/web/20070810063838/http://www.newbie-net.de/anleitung_cron.html)

### 1.1.3. Prerequisites

- fli4l version > 2.1.0
- for older versions please use opt\_easycron version from the OPT-Database

### 1.1.4. Installation

Unzip OPT\_EASYCRON to your fli4l directory like any other fli4l opt.

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## A.1. EASYCRON - Adding To Crontab While Booting

**Important:** *The following statements are intended only for developers of opt-packages for fli4l routers.*

As of version 2.1.7 Easycron's rc-script provides the function `add_crontab_entry()`. Other rc-scripts starting from rc101 to rc949 can add entries to crontab by calling this function. These additional entries get activated with the start of the cron daemon at the end of booting.

```
add_crontab_entry time command [custom]
```

Use `time` to set the execution time in cron notation (see manpage `crontab(5)` at <http://linux.die.net/man/5/crontab>). `command` contains the command to be executed. The third parameter `custom` is optional. By using it you can set environment variables needed for the command used. If more than one variable has to be set separate them by a `\\`.

**Please do not change the environment variable `PATH` because otherwise the following crontab entries could not be executed correctly anymore.**

```
#
# example I: normal use, 2 parameters
#
    crontime="0 5 1 * *"
    croncmd="rotate_i_log.sh"

    add_crontab_entry "$crontime" "$croncmd"

#
# end of example I
#

#
# example II: extended use, 3 parameters and
#               multiple environment values
#
    croncustom="source=/var/log/current \\ dest=/mnt/data/log"
    croncmd='cp $source $dest-`date +%Y%m%d`; > $source'
    crontime="59 23 * * *"

    add_crontab_entry "$crontime" "$croncmd" "$croncustom"
```

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```
#  
# end of example II  
#
```

The accuracy of the entries must be ensured by the calling script.

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