

# 1 GNU Rot[t]log

This is the GNU Rot[t]log info manual version 0.72 GNU Rot[t]log is the GNU log management utility. It was originally authored in 2000 by Stefano Falsetto to rotate his logs. It has similar syntax to Red Hat's logrotate(8), and is written in **bash**.

GNU Rot[t]log is designed to simplify administration of systems that generate large numbers of log files. It allows automatic rotation, compression, and archiving of logs. It also mails reports to the system administrator. Each log file may be handled daily, weekly, monthly, in user-defined days, or when it becomes too large.

Normally, rttlog is run as a daily cron job. The logfiles cannot be modified multiple times per period unless the **-f** or **--force** option is used.

Version 0.72

## 1.1 Synopsis and Options

**rttlog** [**options**]

**--checkrc** <*rcfile*>,<*rcfile*>,...

Check syntax of specified configuration file(s). <*rcfile*> must be one, or more, of: *daily*, *weekly*, *monthly*, *all*.

**--help** Display help page and exit.

**--version**

Display version, disclaimer, and exit.

**-d** Display default options that are assumed, even if not explicitly used, and exit.

**-l** *logfile*

Show contents of archived *logfile* with default pager. *logfile* can be an absolute, or relative, filename. If *logfile* is a relative filename, it will be searched in `$packdir` directory.

**-p** *program* "

Use *program* for paging output of showlog. Useful only with **--showlog**. rttlog relies on system *pager* variable by default.

**-s** *logfile*

Display a summary of syntax statistics about *logfile*. It is like **--checkrc** but more verbose.

**-f** [<*daily*>] [<*weekly*>] [<*monthly*>]

Force rotation and archiving of logfiles, even if unnecessary. This might be useful after adding new entries to a configuration file. If *daily*, *weekly*, or *monthly* is not used, the program will force rotation and archiving of all entries in all config files. Using **--force** option will force rotation and archiving of specified config file, and will check for rotation and archiving of remaining config files that follows in time.

**-v** rttlog STDERR verbosity. Remember that crontab sends its default output via email.

## 1.2 Mandatory RC Variables

The main config file is named `rc` and is the first file read by `rottlog`. Each line can be defined with a variable and default value, `variable=value`. Some variables do not need a value, `variable`. Variables are split in two categories: mandatory and optional. `rc` can be overridden by "period-related" config files.

Comments may appear anywhere in the config file as long as the first non-whitespace character on the line is a `#`. Example:

```
# This is a valid comment
logpart 100b # This is an INVALID comment
```

Following are the mandatory variables needed to make `rottlog` to work:

```
compress=<options>
extension=<ext>
fromuser=<sender address>
mail=<mailer prg> (1)
maxdepth=<depth>
nomail (1)
packdir=<archive-dir>
packer=<absolute-filename>
pager=<pager-program>
touser=<receiver address>
uncompress=<options>
unpacker=<absolute-filename>
```

(1) Can't be used together

Where:

`compress=<options>`

This variable defines options to be used with the packer program to compress data

**IMPORTANT:** The packer program sends output to `STDOUT`, (ie for `gzip/bzip2` use `-c` flag).

`extension=<ext>`

This variable is used to expand meta-variable `@COMP_EXT`, `gz` for `gzip`, `bz2` for `bzip2`, etc.

`fromuser=<sender address>`

Default FROM: address in mail messages sent after each rotation.

`mail=<mailer prg>`

Mail program to send messages. Example:

```
- for sendmail use: mail="sendmail -t"
- for qmail use: mail="qmail-inject -h"
```

- maxdepth=<depth>**  
Default maximum depth to search for files when using \* glob in log filename definition block.
- nomail**     Don't mail rottlog's activity report. This variable is used if the 'mail' option won't be used.
- packdir=<archive-dir>**  
Default basedir to store rotated and archived files. This variable is used to expand @DEF\_DIR meta-variable.
- packer=<absolute-filename>**  
Complete filename to be used for compressed logs.
- pager=<pager-program>**  
Filename of program to use with --showlog parameter. It's used in a pipe, so it must be a program able to read from STDIN. The --showlog option will not be available if this variable is not defined, and each time rottlog is called, a warning message will be printed.
- touser=<receiver address>**  
Recipient address of mail messages sent by "fromuser".
- uncompress=<options>**  
Options to be used with unpacker program.  
**IMPORTANT:** Unpacker program must output data to STDOUT. (For gunzip/bunzip2 use -c.)
- unpacker=<complete-filename>**  
Complete filename to be used for uncompressed logs.

### 1.3 Optional RC Variables

Following are optional variables:

- createdir
- default\_storefile=<storefile>
- dir\_grp=<group>
- dir\_own=<owner>
- dir\_perm=<permissions>
- follow\_symlinks
- ifempty
- maxage=<days>
- missingok
- nocompress
- nocreate
- nomissingok
- notifempty
- remove\_missing
- SunMon=<sun | mon>
- tabooext=<list>

Where:

**createdir**

Create directories specified in `storedir` if needed. It's useful to use with meta-vars. See [Section 1.6 \[Use of meta-variables\], page 15](#).

**default\_storefile=<storefile>**

Default filename to use with archived androtated logfiles. It's useful to use with meta-vars. See [Section 1.6 \[Use of meta-variables\], page 15](#).

**WARNING:** Time-related meta-vars are NOT compatible with rotate parameter.

If `default_storefile` is defined using `@WEEK`, `@DAY`, `@MONTH`, or `@YEAR` meta-variables, each config file containing a logfile to be rotated will not be valid.

**dir\_grp=<group>**

Default group of newly created directory. Must exist in `/etc/group` file. Use with `createdir` option.

**dir\_own=<owner>**

Default owner of newly created directory. Must exist in `/etc/passwd` file. Used with `createdir` option.

**dir\_perm=<permissions>**

Default permission of newly created directory. Only numeric notation is permitted. Used with `createdir` option.

**follow\_symlinks**

Follow symlinks to logfiles. Default behaviour is to not follow symlinks.

**ifempty** Rotate logfiles even if they are empty.

**maxage** Remove archived logs older than `<days>` days. The age is only checked if the logfile is to be managed.

**missingok**

If a logfile is missing, go to the next one without issuing an error message. Last action, if defined, will be performed. Post rotate script, if defined, will not be performed.

**nocompress**

Don't compress logfiles to be archived and rotated.

**nocreate** Don't create a new filename. Can't be used with `logpart` option.

**nomissingok**

`rotlog` will return an error message and stop execution if the a file is missing.

**notifempty**

Do not rotate a logfile if it is empty.

**remove\_missing**

`rotlog` will stop execution if a delayed file no longer exists or is not readable.

**SunMon=<sun|mon>**

Use Sunday or Monday as first day of week. This option is useful only in conjunction with @WEEK meta-variable.

**tabooext=<list>**

The list of files expanded with \* glob will not include files with extensions contained in <list>. If a + precedes this list of extensions, the current taboo extension list is augmented, otherwise it is replaced. At startup, the taboo extension list contains: .new .rpmorig, .rpmsave, ,v, .swp, .rpmnew, and ~.

## 1.4 Global period file structure

Global structure of a period-config file is:

```
out-of-block-definitions

configuration-block-1-start {
    block-contents
}

configuration-block-2-start {
    block-contents
}
```

Comments may appear anywhere in the config file as long as the first non-whitespace character on the line is a #.

At the beginning of all the period related config files (exactly before, and out of, all configuration blocks) all options from the main rc config file can be used. So it can define period-related default values and override its values inside per-logfile block definitions.

Here is another out-of-block definition:

```
include CONFIGFILE[,CONFIGFILE,...]
```

This option includes specified files as if they were written at the end of configuration file. Nested includes are not supported. The *configfile* must be an absolute filename, or a filename with the \* wildcard. To include all files in a directory, the search path must be used **path-to-dir/\*** (i.e. **/etc/roottlog/monthly.d/\***). If this line is too long, a \ character can be inserted at the end of the line, continuing on the following line.

A **configuration-block-n-start** is a list of one, or more, comma separated filenames to be archived, or rotated. A configuration block for a set of filenames, all stored in a single dir, can be used: **path-to-dir/\*** (i.e. **/var/adm/apachelogs/\***). If a filename contains special characters like ] or @{ you must protect them from expansion with a double slash (i.e. **apache\[1\].log**). If the same logfile is used more than one time in the same configuration file, it will be used in only the first defined block.

All expanded filenames will be checked to not have an extension contained in the *def.taboo\_ext* variable. See [\[tabooext\]](#), page 14.

## 1.5 Configuration parameters

A configuration block can include one or more of following keywords:

- append-only
- collate logfile
- create mode owner group
- createdir [<perms>] [<own> <grp>]
- create\_logrotate
- delaycompress
- dateext
- dateoffset
- day\_based
- firstaction ... endaction
- ifempty
- lastaction ... endaction
- logpart <qdldl>
- log\_rotate
- mailopt <what>
- maxage <days>
- maxdepth <depth>
- missingok
- month\_based
- nocompress
- nocreate
- nomail
- nosharedscripts
- nostoredir
- notifempty
- period <period-definitions>
- postrotate ... endsript
- prerotate ... endsript
- rotate number
- sharedscripts
- size num[b,k,M]
- start <number>
- storedir <dirname>
- storefile <filename>
- tabooext <list>
- tarcollate <logfile>
- touser <email address>
- week\_based
- year\_based

Where:

**append-only**

To be used only on ext[23] fs. Set append only attribute to a logfile. (More precisely: remove this attribute before handling log, and reset it after all operations are preformed).

**collate**

Store more than one logfile in one compressed file. This option makes possible to weekly rotate a logfile (i.e. in a small volume), and monthly store a compressed file containing previously rotated files (i.e. in a bigger backup volume).

If used in monthly configuration file, *logfile* will be searched in weekly configuration file. If used in weekly configuration file, *logfile* will be searched in daily configuration file. This parameter can't be used in daily configuration file.

Logfiles to be referenced with collate option must use rotate option with correct periods:

- collate monthly a weekly rotated file : rotate 4
- collate weekly a daily rotated file : rotate 7

Example: Collect monthly a weekly rotated log.daemon

In weekly configuration file:

```

/var/adm/log.daemon {
    storedir /mnt/tiny/@YEAR/@BASENAME
    createdir 4700 stefano root
    create 600 stefano root
    prerotate
        /sbin/killall -HUP syslogd
    endscrip
    # Important!
    rotate 4
    delaycompress
}

```

In monthly configuration file:

```

/var/adm/log.daemon {
    storedir /mnt/BigVolume/Collections/@YEAR/@BASENAME
    createdir
    collate
}

```

In `/mnt/BigVolume/Collections/2002/log.daemon` will be stored a file called `log.daemon.<number>` containing `log.daemon.1`, `log.daemon.2`, `log.daemon.3` and `log.daemon.4` weekly created in the `/mnt/tiny/2002/log.daemon` dir.

This option is compatible only with following:

- [no]storedir
- storefile
- createdir
- [no]missingok (TODO)
- firstaction/lastaction

- prerotate/postrotate
- nocompress
- touser
- nomail
- ifempty/notifempty are silently ignored.

**create** *[[mode] [owner group]]*

Immediately after rotation, and before the postrotate script is run, the log file is created with the same name as the log file just rotated. *mode* specifies the mode for the log file in octal notation (the same as `chmod(2)`), *owner* specifies the user name who will own the log file, and *group* specifies the *group* the log file will belong to.

If none of the three parameters are specified, and `create_logrotate` is set to 0 (or undef), the new file will be created with permissions and owner defined in default variables `fil_perm`, `fil_own`, and `fil_grp`. You can specify *mode* only, or *mode* and *owner*, but you can't specify *mode* and *group* (second parameter is always interpreted as owner). If none of the three parameters are specified, and `create_logrotate` is set to 1, the new file will be created with permissions and owner of old logfile.

**createdir** *[perms] [own grp]*

Create (if needed) a directory to store archived or rotated logs with specified permissions and owner:group. If none of the three parameters is specified the directory will be created with permissions and owner defined in default variables `dir_perm`, `dir_own`, and `dir_grp`. You can specify *perms* only, or *perms* and *own*, but you can't specify *perms* and *grp* (second parameter is always interpreted as owner). *perms* specifies the mode for the log file in octal notation (the same as `chmod(2)`).

**IMPORTANT:** If directory hierarchy to be created is deeper than one directory, only the last directory will have the owner and permissions expected. Example:

```
storedir 2002/04/apache_logs
createdir 4300 rottlog
```

If dir 2002 is not already present on your box you will have (assuming that rottlog is run by user stefano):

```
$ ls -od 2002 2002/04 2002/04/apache_logs
drwxr-xr-x  2 stefano 1024 Apr 11 18:35 2002/
drwxr-xr-x  2 stefano 1024 Apr 11 18:35 2002/04
d-ws-----  2 rottlog 1024 Apr 11 18:35 2002/04/apache_logs
```

**create\_logrtate**

Create a new 0-size file with permission of just-rotated logfile. This is a parameter used for compatibility with logrotate. **IMPORTANT:** it needs `create`.

**delaycompress**

Postpone compression of the previous log file until the next rotation cycle. It can be used when some program can not be told to close its logfile and thus might continue writing to the previous log file for some time.



**dateext**

Archive old versions of log files, adding a daily extension, like YYYYMMDD, instead of simply adding a number. This is a shortcut for: `storefile @BASENAME.@NEXT_EXT-@YEAR@MONTH@DAY`

**dateoffset <+/-day>**

Force time related metavariables to be calculated with <day> days of offset. Example: if today is 5 August, and "dateoffset -1" is used, the @DAY metavariable will be expanded as 04, not 05.

**day\_based**

Force @NEXT\_EXT generation to be on a daily basis. This is useful only if @DAY metavariable is used in storefile. See See [\[month\\_based\]](#), page 10.

**firstaction EXIT\_CODE... endaction**

The unique line between firstaction and endaction (both of which must appear on lines by themselves) are executed before any operation. It will be performed during parameter parsing, before filename and metavars expansion. Optional parameter EXIT\_CODE is the default exit code expected at the action. If not specified 0 will be expected. If used in a multiple files definition, the action will be run only one time, before processing the first file.

**ifempty**

Rotate the log file even if it is empty.

**lastaction EXIT\_CODE... endaction**

The unique line between lastaction and endaction (both of which must appear on lines by themselves) are executed after all operations. It will be performed just before handling the next logfile. Optional parameter EXIT\_CODE is the default exit code expected by the action. If not specified 0 will be expected.

If used to define multiple files, the action will be run only one time, after processing all files.

**logpart qdldl**

Leave a part of log to archive/rotate in new logfile. *qdldl* can be:

```
<number>l  
<number>b  
"<regexp>"  
"<#1 day>"
```

where *l* and *b* stands for lines and bytes respectively. *regexp* is a regular expression used by *grep* to find the first line to leave in log. "*#1 day*" is a shortcut to a *regexp* corresponding to the first day of the current month.

**log\_rotate**

Allows *rotlog* to use a different algorithm to rotate logs. In particular it will use the *logrotate* algorithm. This is a parameter used for compatibility with *logrotate*.

**mailopt *what***

Allows rottlog to send detailed mail messages. *what* can be a valid combination of:

- all|a ⇒ Mail all sorts of information
- maillast|overwrite|over ⇒ Attach to-be-overwritten files to mail in plain text
- ziplast|zip ⇒ Attach to-be-overwritten files to mail in compressed format
- error|err ⇒ Mail only error messages
- none|nomail ⇒ Don't mail anything

**maxage <days>**

Remove archived logs older than <days> days. The age is only checked if the logfile is to be managed. If maxage is used without <days>, the default is 365 days.

**maxdepth <depth>**

Default maximum depth to search for files when using the \* metachar in log filename definition.

**missingok**

If the log file is missing, go on to the next one without issuing an error message. Default behaviour is to stop executing and return an error exit code.

**month\_based**

Force @NEXT\_EXT generation to be on a monthly basis. This is useful only if the @MONTH metavariable is used in storefile.

Example:

```
$ date
Fri Feb 25 14:34:04 CET 2005
$ ls
apache.log-2005-01.1
apache.log-2004-02.1
apache.log-2004-08.1
$ rottlog
$ ls
apache.log-2005-01.1
apache.log-2004-02.1
apache.log-2004-08.1
apache.log-2005-02.2
```

In the above example, month\_based is used to order apache.log files on a month basis:

```
$ ls *-02*
apache.log-2004-02.1
apache.log-2005-02.2
```

**nocompress**

Old versions of log files are not compressed with packer defined in rc file.

**nocreate**

Don't create a new logfile. Can't be used with logpart.

**nomail**

Don't send notification email message.

**nosharedscripts**

Run prerotate and postrotate scripts for every script which is rotated (this is the default, and overrides the sharedscripts option).

**nostoredir**

Logs are rotated/archived in the same directory the log normally resides in.

**notifempty**

Do not rotate the log if it is empty.

**period** *period-definitions*

**WARNING: This option can be used only in custom configuration file.**

This is a very powerful option able to force an action on the time interval specified. This is useful when a system administrator must force rotation of some logfiles in times different from the canonical monthly, weekly, and daily.

*period-definitions* is a comma-separated list of items defining a day, or a set of days, a month, or a set of months, and so on. Usable items can be:

- DD ⇒ Each DDth day of the month
- DDd ⇒ Each DD days
- WWw ⇒ Each WW weeks
- mmM ⇒ Each mm months
- <weekday> ⇒ Each <weekday> of the week
- <monthname> ⇒ Each <monthname> of the year
- HH:MM ⇒ At specified hour and minutes (\*)
- 0 ⇒ Each time rottlog is called (\*)

(\*) It depends on rottlog's entries in crontab

Where

<weekday> can be short:

mon, tue, wed, thu, fri, sat, sun

or long:

monday, tuesday, wednesday, thursday, friday,  
saturday, sunday

<monthname> can be short:

jan, feb, mar, apr, may, jun, jul, aug, sep,  
oct, nov, dec

or long:

january, february, march, april, may, june,  
july, august, september, october, november,  
december

Following characters can add use of logical functions and ranges:

- , (comma) ⇒ OR
- " " (white space) ⇒ AND

! (exclamation mark)	⇒	NOT
- (minus)	⇒	Week or month range
+ (plus)	⇒	Week or month list (Inlined OR)

Minus character can be used to define a range of days or months, can't use long and short mixed range definitions, (i.e. it's valid to use sep-dec but not september-dec).

While the minus character is used to define a range of days or months, plus char can be used to define a list of days or months. In fact it can be used as a shortcut to comma. See below for more information.

The NOT operator must be used before an operator to negate. In a range, or list, a not operator can only be used before its definition. (i.e. it's valid to write `!mon-thu`, but it's not valid to write `mon-!thu`. It's valid to write `!mon+fri+sat`, but it's not valid to write `mon+!fri+sat`)

Comma-separated tokens are analyzed in the given order. When one meets a true condition, the check is stopped without continuing to parse further.

**WARNING: Correct behaviour of rottlog with period parameter strictly depends from correct configuration of rottlog's crontab.**

Some examples:

```
1) period mon-wed 21:00,sat 10:00
```

Is equivalent to:

```
period mon 21:00,tue 21:00,wed 21:00,sat 10:00
```

This means that rotation must be performed if rottlog is run and today is Monday and it is 21:00 hours, or today is Tuesday and it is 21:00 hours, and so on with Wednesday, or today is saturday and it is 10:00 hours.

```
2) period !mon-wed 21:00,wed 19:00
```

Is equivalent to:

```
period !mon !tue !wed 21:00,mon 19:00
```

This means that rotation must be performed if rottlog is run and today is not Monday, Tuesday, nor Wednesday and it is 21:00 hours, or today is Monday and it is 19:00 hours.

```
3) period jan-jun 23:00,jul-sep 10:00,oct-dec 23:00
```

Is equivalent to:

```
period !jul-sep 23:00,jul-sep 10:00
```

This means that rotation must be performed if rottlog is run and today is not in a month between (or including) July and September and it is 23:00 hours, or today is in a month between (or including) July and September and it is 10:00 hours.

```
4) period mon+fri jul-sep 22:00,
    !jul-sep mon-sat 01:00 (all in one line)
```

Is equivalent to:

```
period mon jul-sep 22:00, fri jul-sep 22:00,
```

```
!jul-sep mon-sat 01:00 (all in one line)
```

This means that rotation must be performed if `rottlog` is run and today is Monday or Friday in a month between (or including) July to September and it's 22:00, or today is not in a month between (or including) July to September and it's between (or including) Monday through Saturday and it's 01:00.

This sample can be made to use the `+` operator. It's handy not to have to write a long line like the latter, but a more compact line like the former is better.

`postrotate ... endscrip`t

Lines between `postrotate` and `endscrip`t (both of which must appear on lines by themselves) are executed after the log file is archived/rotated. Can be used with metavariables. See [Section 1.6 \[Use of meta-variables\], page 15](#), for details.

`prerotate ... endscrip`t

Lines between `prerotate` and `endscrip`t (both of which must appear on lines by themselves) are executed before the log file is archived/rotated. Can be used with metavariables. See [Section 1.6 \[Use of meta-variables\], page 15](#), for details.

`rotate number`

Log files are rotated `<number>` times before being overwritten. Rot[t]log uses two rotation methods: a `rottlog` method and the `logrotate` method. The native method will order rotated files by extension. The `logrotate` method can be used adding the `log_rotate` option to the configuration block. The following example will show the differences between the two methods:

```
# In weekly configuration file
/var/http/logs/access.log {
    rotate 4
    log_rotate
}
/var/http/logs/error.log {
    rotate 4
}
```

The following are saved as specified above:

```
week 1:  access.log    ⇒  access.log.1
         error.log    ⇒  error.log.1

week 2:  access.log.1 ⇒  access.log.2
         access.log    ⇒  access.log.1
         error.log    ⇒  error.log.2

week 3:  access.log.2 ⇒  access.log.3
         access.log.1 ⇒  access.log.2
         access.log    ⇒  access.log.1
         error.log    ⇒  error.log.3

week 4:  access.log.3 ⇒  access.log.4
         access.log.2 ⇒  access.log.3
```

```

access.log.1  ⇒  access.log.2
access.log    ⇒  access.log.1
error.log     ⇒  error.log.4

```

After four weeks, the first archived access.log will be access.log.4 and first archived error.log will still be error.log.1

#### sharedscripts

Let the postrotate script be run only once, after handling the last file in a multiple file definition block:

```

/var/adm/log.* {
    sharedscripts
    postrotate
        killall -HUP syslogd
    endscript
}

```

The killall command will be run only after handling all log files beginning with "log" in the /var/adm dir.

#### size num [b,k,M]

Rotate a logfile only if it grows the specified dimension. Parameter must be a number followed by one of following chars:

```

b - means bytes
k - means kbytes (num * 1024)
M - means megabytes (num * 1000000)

```

If none of these three characters is used, b is default.

#### start number

Number to use as the base for rotation. Extensions will start from the specified number. The files will be rotated the number of times specified in the rotate option, minus the 'start' number.

#### storedir dirname

If dirname is a relative dirname it will be appended to packdir, defined in the rc file; if dirname is an absolute dirname it will be used instead of packdir. Can be used with metavariables. See [Section 1.6 \[Use of meta-variables\], page 15](#), for details.

#### storefile filename

Filename of compressed logfile to be used (filename only). Can be used with metavariables. See [Section 1.6 \[Use of meta-variables\], page 15](#), for details.

#### tabooext <list>

The list of files expanded with the \* wildchar will not include files with an extension contained in <list>. If a + precedes this list of extensions, the current taboo extension list is augmented, otherwise it is replaced. At startup, the taboo extension list contains: .new .rpmorig, .rpmsave, ,v, .swp, .rpmnew, and ~.

**tarcollate**

Same as collate, but store files in a compressed tar file. In addition this option is compatible with ifempty option too. If set, a void file will be archived with tar. If not set, it will be skipped.

Tar archive will contain relative dirnames if possible (if archived, files are in subdirs of packdir defined in main rc file), or absolute dirname.

**touser *e-mail***

Override global value of touser variable defined in rc file.

**week\_based**

Force @NEXT\_EXT generation to be on a week basis. This is useful only if @WEEK metavar is used in storefile. See See [\[month\\_based\]](#), page 10, for more information.

**year\_based**

Force @NEXT\_EXT generation to be on a yearly basis. This is useful only if @YEAR metavar is used in storefile. See See [\[month\\_based\]](#), page 10, for more information.

## 1.6 Use of meta-variables

In monthly/weekly/daily logs metavariables can be used. Metavariables are identifiers of a runtime defined value and can be used while using following parameters:

- storedir
- storefile
- prerotate...endscript
- postrotate...endscript

List of handled metavariables:

**@DIRNAME**

Dir containing logfile to be archived/rotated.

**@FILENAME**

Name of the file to be rotated with numerical extension (@BASENAME.@NEXT\_EXT).

**@BASENAME**

Name of the file to be rotated, without extension.

**@DEF\_DIR**

Default dir of archive dir (corresponding to packdir variable).

**@COMP\_EXT**

Extension of compressed file (corresponding to extension variable).

**@NEXT\_EXT**

Next available numbered extension in destination dir.

**@TMPDIR**

Name of a temporary directory.

- @1..@n** String corresponding to first, second, etc, on directory in dirname of file to archive/rotate
- @YEAR** Return current 4 digit year (i.e. 1970).
- @MONTH** Return current month (01..12).
- @WEEK** Return number of week in year (0..53) to SunMon variable.
- @DAY** Return current day of month (01..31).

Values of metavariables are defined while the script is running, so a block definition like this

```
/var/adm/log.* {
  storadir /var/adm/archive-log/@BASENAME
  rotate 5
  ...
}
```

means that rottlog will rotate 5 times all files in /var/adm beginning with "log." and store each file in a dir named with logname. (i.e. /var/adm/archive-log/log.kern, /var/adm/archive-log/log.daemon...)

**WARNING: Metavariables substitution is merely textual!**

So in a block like this

```
/var/http/www.mysite.com/log/access.log {
  storefile @3-@13-@FILENAME
  rotate 4
  ....
}
```

rottlog will create logfiles called something like www.mysite.com-var3-access.log.1

Because @13 is not defined (complete absolute filename in first line of block definition contains only 5 tokens) and only @1 will be substituted. Following text will not be affected (remaining 3-) and will **NOT** generate an error code.

## 1.7 RC File Examples

**Example 1.** Basic configuration for main rc file. Rottlog will use gzip/gunzip to compress/uncompress data. MTA used is sendmail, with administrator contact email of master@example.net. Rotation algorithm and use of file creation attribute will be the same as logrotate. For security, symbolic links will not be followed.

```
# This file has been created for maximum compatibility with logrotate
#
# Compressor program
packer=gzip

# Packer's options to compress and send to stdout
compress="-9c"
```



```
# DE-Compressor program
unpacker=gunzip

# Decompressor's options to send output do stdout
uncompress="-c"

# Normal extension of compressed files
extension="gz"

# Pager used to view uncompressed logs
pager="less"

# default basedir to store rotated/archived files
packdir="/var/log/roottlog"

# Sender of mail messages
fromuser="roottlog@example.net"

# Receiver of mail messages
touser="master@example.net"

# don't rotate/archive files of 0 size
notifempty=1

# Mail program to send messages.
mail="/usr/sbin/sendmail -t"

# Default Maximum depth to use with * metachar
maxdepth=0

# set to 0 will not follow symlinks
follow_symlinks=0

# Silently remove from status file no longer existant delayed logfiles
remove_missing

# Store archived logfiles in the same directory where "live" logfiles
# resides
nostoredir

# Copy mode, owner, and group from old logfile, if create is called
# without parameters (logrotate behaviour)
create_logrotate

# Rotate files with logrotate behaviour
```

```
log_rotate
```

## 1.8 Period Related File Examples

Using Meta Variables and a rotation algorithm it is possible to rotate logs so that a file rotated once is never touched again (unless deleted), making log rotation much more compatible with host-based intrusion detection schemes. Words beginning by @ are special Meta Variables used to create dynamic fields like file and directory names to use.

The following examples will use defaults defined in the previous section. These examples are valid in all monthly, weekly, and daily config files.

**Example 1.** Use `/var/log/roottlog/log.daemon` and leave in new logfile events from first day of actual month (`logpart`). After that, a script will be called to restart syslogd (`postrotate/endscript`).

```
/var/log/roottlog/log.daemon {
    postrotate
        /sbin/killall -HUP syslogd
    endscript
    logpart "#1 day"
}
```

**Example 2.** Same as Example 1, but archived logfile compression is postponed to the next time roottlog will handle `/var/log/roottlog/log.daemon` (`delaycompress`).

```
/var/log/roottlog/log.daemon {
    postrotate
        /sbin/killall -HUP syslogd
    endscript
    logpart "#1 day"
    delaycompress
}
```

**Example 3.** Split log files; `postrotate` script will be run for each single logfile.

```
/var/log/roottlog/log.daemon,/var/log/roottlog/log.debug {
    postrotate
        /sbin/killall -HUP syslogd
    endscript
    logpart "#1 day"
    delaycompress
}
```

**Example 4.** Rotate 6 times all files in `/var/log/apache` dir (`rotate`). Archived logfiles will not be compressed (`nocompress`) and they will be stored in an `apache-archives` subdir of `"packdir"` defined in main rc configuration file (`storedir`). If a logfile has size 0 it will not be handled (`notifempty`).

```

/var/log/apache/* {
    storedir apache-archives
    rotate 6
    notifempty
    nocompress
}

```

**Example 5.** Archive `wtmp` and `lastlog` files and touch new 0 byte files with specified permissions, owner and group (`create`). Report message will be sent to a different user from those specified in main rc config file (`touser`). Logfile compression is postponed to the next rotation cycle.

```

/var/adm/wtmp,/var/adm/lastlog {
    create 644 root root
    delaycompress
    touser "admin@example.net"
}

```

**Example 6.** Rotate twice all logfiles in `/var/log` called `log.a*`, descending two levels of recursion to find files. Store compressed logfiles in a dir called something like:

```
$packdir/<actual year>/<actual month>/<logfile basename>
```

This is done using META-VARIABLES in `storedir` parameter.

See [Section 1.6 \[Use of meta-variables\]](#), page 15, for details.

New 0 byte files will be created with specified permissions, owner and group (`create`), and will be set with the append-only attribute (`append-only`). Don't rotate logs if they are smaller than 1 Megabyte (`size`).

```

/var/log/log.a* {
    # Descend two levels of depth to find files respecting criteria
    # (beginning by log.a)
    maxdepth 2

    # Use of meta-variables. storedir will be expanded for each processed
    # file (so i.e. will be used 2002/04/log.auth, 2002/04/log.apache, ....)
    # to store compressed archived logs
    storedir @YEAR/@MONTH/@BASENAME

    # Make new dirs if necessary with specified permissions, owner and group
    # ALERT: See README for more details.
    createdir 0640 root loggers

    # Rotate files with a 6 month period.
    rotate 6

    # Flag to use only with an ext2 filesystem. Add append-only attribute
    # to logfile

```

```

    append-only

    # Don't rotate if logfile is smaller than 1 Megabyte
    size 1M
}

```

**Example 7.** Archive all logfiles stored in local `/usr/local/apache/logs` dir in a remote NFS volume, mounted during `rotlog`'s execution. Will be used `firstaction...endaction` to mount nfs remote volume, and `lastaction...endaction` to unmount it. Archived logfiles are stored in a dir available only after `firstaction` is performed and is defined during `rotlog`'s execution.

```

/usr/local/apache/logs/* {
    # Action between firstaction and endaction tags will be performed before
    # all logfiles are rotated/archived
    firstaction
        mount fserver.example.net:/LogArchive /mnt/LogVol
    endaction

    # Define a destination directory available only after firstaction
    # is performed
    storedir /mnt/LogVol/@YEAR/@MONTH/@BASENAME

    # Permissions about newly created dir
    createdir 0640 root loggers
    notifempty

    # After each log file is rotated following commands will be executed
    postrotate
        /usr/local/apache/bin/apachectl restart
        /usr/local/bin/my-nice-script.sh
    endscript

    # Action between lastaction and endaction tags will be performed after
    # all logfiles has been rotated/archived.
    lastaction
        umount /mnt/LogVol
    endaction
}

```

**Example 8.** Archive all logfiles stored in the local `/usr/local/squid/logs/` directory onto tape. Before archive the logfile, it will be saved in a temporary directory that will be removed immediately after handled last logfile in this block.

```

/usr/local/squid/logs/* {
    # Action between firstaction and endaction tags will be performed
    # before all logfiles are rotated/archived
    firstaction

```

```

    mt -f /dev/nst0 eom
endaction

# Define a temporary storedir
storedir @TEMPDIR

# Define filename of logs to be archived
storefile @FILENAME.@WEEK@YEAR

# Don't archive file if it's empty
notifempty

# After each log file is rotated following commands will be executed
postrotate
    star -cv -f /dev/nst0 @TEMPDIR/@FILENAME.@WEEK@YEAR
endscript

# Action between lastaction and endaction tags will be performed after
# all logfiles has been rotated/archived
lastaction
    mt -f /dev/nst0 offline
endaction
}

```

**Example 9.** Archive log.daemon only on 15th day of the month, and will compress the archived logfile next month.

```

/var/adm/log.daemon {
    # These actions will be performed after archived each logfile
    postrotate
        /sbin/killall -HUP syslogd
    endscript
    delaycompress
    # rottlog will handle this file only on 15th day of the month
    period 15
}

```

**Example 10.** Rotate fetchmail.log five times before overwriting, each three days, So the file fetchmail.log.1 will be overwritten each 15 days.

```

/var/log/fetchmail.log {
    # Handle this file every three days
    period 3d
    # Handle logfile on a 5-period basis. So fetchmail.log.1 will be
    # overwritten every 15 days
    rotate 5
}

```

**Example 11.** Archive `log.auth` using different behaviour in different year periods. If we are in summer (july to september), `log.auth` will be archived on monday or friday at 22:00. If we are not in summer, the file will be archived from monday to saturday at 01:00.

```
/var/adm/log.auth {
    # rottlog will handle this file:
    # monday or friday on 22:00 during summer (july to september)
    # from monday to saturday on 01:00 otherwise
    period mon+fri jul-sep 22:00, !jul-sep mon-sat 01:00
}
```

**Example 12.** Rotate `log.auth` with logrotate algorithm.

```
/var/adm/log.auth {
    log_rotate
    rotate 4
}
```

**Example 13.** Rotate `log.auth` using logrotate algorithm and `rotrlog create` parameter. This means that the new logfile will be created with 0600 mode and owner stefano, group root.

```
/var/adm/log.auth {
    log_rotate
    create 600 stefano root
    rotate 4
}
```

**Example 14.** Rotate `log.auth` using logrotate algorithm and `create` parameter. This means that the new logfile will be created with same permission and owner.group of just-rotated `log.auth`.

```
/var/adm/log.auth {
    log_rotate
    create_logrotate
    rotate 4
}
```

**Example 15.** Store apache logs from many virtual hosts each odd days if it is not Summer, otherwise it will store logs only Wednesday and Saturday

```
/hosts/domain1.com/log/access_log,/hosts/domain1.com/log/error_log,\
/hosts/domain2.com/log/access_log,/hosts/domain2.com/log/error_log,\
/hosts/domain3.com/log/access_log,/hosts/domain3.com/log/error_log,\
/hosts/domain4.com/log/access_log,/hosts/domain4.com/log/error_log,\
/hosts/domain5.com/log/access_log,/hosts/domain5.com/log/error_log {
# @1 stays for: first token in path parsing
# @2 stays for: second token in path parsing
storedir @1/@2/log/@MONTH-@YEAR

# Create new directories if not yet existant with specified
```

```

# permissions, owner and group
createdir 0644 apache apache

# Defines archived filenames
storefile @BASENAME.@DAY.gz

# Create new 0-size logfiles in place of archived with specified
# permissions, owner and group
create 0644 apache apache

# Force archiving of logfiles:
# 1 - Monday, wednesday, friday and sunday if actual month is not
#     between july and august
# 2 - Wednesday and saturday if actual month is between july and
#     august
period !jul-aug mon+wed+fri+sun, jul-aug wed+sat

# Handle this file even if it is empty
ifempty

# Don't mail to administrator report for each log file handled
nomail
}

```

**Example 16.**

```

/var/adm/messages {
# Store compressed messages in $packdir/messages
storedir messages
# These actions will be performed before archiving the logfile
prerotate
/sbin/killall -STOP myprogram
endscript
# Rotate logs with extensions from .1 to .5
rotate 5
# Don't rotate log if it's empty
notifempty
}

```

**1.9 Files****@ETCDIR/rc**

The main configuration file.

**@ETCDIR/monthly**

Configuration file to handle monthly log rotation.

**@ETCDIR/weekly**

Configuration file to handle weekly log rotation.

**@ETCDIR/daily**

Configuration file to handle daily log rotation.

**@ETCDIR/custom**

Configuration file to handle custom log rotation.

**@STATDIR**

**/var/lock/LOCK.rottlog**

Lockfile to prevent running multiple instances of rottlog.

## 1.10 Bugs

If you find a bug in this program, or documentation, please email [bug-rottlog@gnu.org](mailto:bug-rottlog@gnu.org), or through Bug Tracker at <https://savannah.gnu.org/bugs?group=rottlog>.

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