



Full credit is given to the above companies including the Operating System (OS) that this PDF file was generated!

Rocky Enterprise Linux 9.2 Manual Pages on command 'Dpkg::Changelog.3perl'

\$ man Dpkg::Changelog.3perl

Dpkg::Changelog(3perl) libdpkg-perl Dpkg::Changelog(3perl)

NAME

Dpkg::Changelog - base class to implement a changelog parser

DESCRIPTION

Dpkg::Changelog is a class representing a changelog file as an array of changelog entries (Dpkg::Changelog::Entry). By deriving this class and implementing its parse method, you add the ability to fill this object with changelog entries.

METHODS

`$c = Dpkg::Changelog->new(%options)`

Creates a new changelog object.

`$c->set_options(%opts)`

Change the value of some options. "verbose" (defaults to 1) defines whether parse errors are displayed as warnings by default. "reportfile" is a string to use instead of the name of the file parsed, in particular in error messages. "range" defines the range of entries that we want to parse, the parser will stop as soon as it has parsed enough data to satisfy `$c->get_range($opts{range})`.

`$count = $c->parse($fh, $description)`

Read the filehandle and parse a changelog in it. The data in the object is reset before parsing new data.

Returns the number of changelog entries that have been parsed with success.

This method needs to be implemented by one of the specialized changelog format subclasses.

`$count = $c->load($filename)`

Parse \$filename contents for a changelog.

Returns the number of changelog entries that have been parsed with success.

`$c->reset_parse_errors()`

Can be used to delete all information about errors occurred during previous parse runs.

`$c->parse_error($file, $line_nr, $error, [$line])`

Record a new parse error in \$file at line \$line_nr. The error message is specified with \$error and a copy of the line can be recorded in \$line.

`$c->get_parse_errors()`

Returns all error messages from the last parse run. If called in scalar context returns a human readable string representation. If called in list context returns an array of arrays. Each of these arrays contains

1. a string describing the origin of the data (a filename usually). If the reportfile configuration option was given, its value will be used instead.
2. the line number where the error occurred
3. an error description
4. the original line

`$c->set_unparsed_tail($tail)`

Add a string representing unparsed lines after the changelog entries. Use undef as \$tail to remove the unparsed lines currently set.

`$c->get_unparsed_tail()`

Return a string representing the unparsed lines after the changelog entries. Returns undef if there's no such thing.

`@{$c}`

Returns all the `Dpkg::Changelog::Entry` objects contained in this changelog in the order in which they have been parsed.

`$c->get_range($range)`

Returns an array (if called in list context) or a reference to an array of `Dpkg::Changelog::Entry` objects which each represent one entry of the changelog. \$range is a hash reference describing the range of entries to return. See section "RANGE SELECTION".

`$c->abort_early()`

Returns true if enough data have been parsed to be able to return all entries selected

by the range set at creation (or with `set_options`).

```
$str = $c->output()
```

```
"$c"
```

Returns a string representation of the changelog (it's a concatenation of the string representation of the individual changelog entries).

```
$c->output($fh)
```

Output the changelog to the given filehandle.

```
$c->save($filename)
```

Save the changelog in the given file.

```
$control = $c->format_range($format, $range)
```

Formats the changelog into `Dpkg::Control::Changelog` objects representing the entries selected by the optional range specifier (see "RANGE SELECTION" for details). In scalar context returns a `Dpkg::Index` object containing the selected entries, in list context returns an array of `Dpkg::Control::Changelog` objects.

With format `dpkg` the returned `Dpkg::Control::Changelog` object is coalesced from the entries in the changelog that are part of the range requested, with the fields described below, but considering that "selected entry" means the first entry of the selected range.

With format `rfc822` each returned `Dpkg::Control::Changelog` objects represents one entry in the changelog that is part of the range requested, with the fields described below, but considering that "selected entry" means for each entry.

The different formats return `undef` if no entries are matched. The following fields are contained in the object(s) returned:

Source

package name (selected entry)

Version

packages' version (selected entry)

Distribution

target distribution (selected entry)

Urgency

urgency (highest of all entries in range)

Maintainer

person that created the (selected) entry

Date

date of the (selected) entry

Timestamp

date of the (selected) entry as a timestamp in seconds since the epoch

Closes

bugs closed by the (selected) entry/entries, sorted by bug number

Changes

content of the (selected) entry/entries

RANGE SELECTION

A range selection is described by a hash reference where the allowed keys and values are described below.

The following options take a version number as value.

since

Causes changelog information from all versions strictly later than version to be used.

until

Causes changelog information from all versions strictly earlier than version to be used.

from

Similar to "since" but also includes the information for the specified version itself.

to Similar to "until" but also includes the information for the specified version itself.

The following options don't take version numbers as values:

all If set to a true value, all entries of the changelog are returned, this overrides all other options.

count

Expects a signed integer as value. Returns "value" entries from the top of the changelog if set to a positive integer, and "abs(value)" entries from the tail if set to a negative integer.

offset

Expects a signed integer as value. Changes the starting point for "count", either counted from the top (positive integer) or from the tail (negative integer). "offset" has no effect if "count" wasn't given as well.

Some examples for the above options. Imagine an example changelog with entries for the versions 1.2, 1.3, 2.0, 2.1, 2.2, 3.0 and 3.1.

Range	Included entries
-----	-----
since => '2.0'	3.1, 3.0, 2.2
until => '2.0'	1.3, 1.2
from => '2.0'	3.1, 3.0, 2.2, 2.1, 2.0
to => '2.0'	2.0, 1.3, 1.2
count => 2	3.1, 3.0
count => -2	1.3, 1.2
count => 3, offset => 2	2.2, 2.1, 2.0
count => 2, offset => -3	2.0, 1.3
count => -2, offset => 3	3.0, 2.2
count => -2, offset => -3	2.2, 2.1

Any combination of one option of "since" and "from" and one of "until" and "to" returns the intersection of the two results with only one of the options specified.

CHANGES

Version 2.00 (dpkg 1.20.0)

Remove methods: `$c->dpkg()`, `$c->rfc822()`.

Version 1.01 (dpkg 1.18.8)

New method: `$c->format_range()`.

Deprecated methods: `$c->dpkg()`, `$c->rfc822()`.

New field Timestamp in output formats.

Version 1.00 (dpkg 1.15.6)

Mark the module as public.

1.21.1 2024-02-23 Dpkg::Changelog(3perl)