

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 object and implementing its parse method, you add the ability to fill this object with changelog entries.

FUNCTIONS

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

Creates a new changelog object.

`$c->load($filename)`

Parse `$filename` as a changelog.

`$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})`.

`$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`).

```

$c->save($filename)
    Save the changelog in the given file.

$c->output()
    “$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.

my $control = $c->dpkg($range)
    Returns a Dpkg::Control::Changelog object representing the entries selected by the optional
    range specifier (see “RANGE SELECTION” for details). Returns undef in no entries are
    matched.

    The following fields are contained in the object:

    Source
        package name (in the first entry)

    Version
        packages’ version (from first entry)

    Distribution
        target distribution (from first entry)

    Urgency
        urgency (highest of all printed entries)

    Maintainer
        person that created the (first) entry

    Date
        date of the (first) entry

    Closes
        bugs closed by the entry/entries, sorted by bug number

    Changes
        content of the the entry/entries

my @controls = $c->rfc822($range)
    Returns a Dpkg::Index containing Dpkg::Control::Changelog objects where each object
    represents one entry in the changelog that is part of the range requested (see “RANGE
    SELECTION” for details). For the format of such an object see the description of the “dpkg”
    method (while ignoring the remarks about which values are taken from the first entry).

```

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

```
C<<{ since =E<gt> '2.0' }> 3.1, 3.0, 2.2
```

```
C<<{ until =E<gt> '2.0' }> 1.3, 1.2
```

```
C<<{ from =E<gt> '2.0' }> 3.1, 3.0, 2.2, 2.1, 2.0
```

```
C<<{ to =E<gt> '2.0' }> 2.0, 1.3, 1.2
```

```
C<<{ count =E<gt> 2 }> 3.1, 3.0
```

```
C<<{ count =E<gt> -2 }> 1.3, 1.2
```

```
C<<{ count =E<gt> 3, offset=E<gt> 2 }> 2.2, 2.1, 2.0
```

```
C<<{ count =E<gt> 2, offset=E<gt> -3 }> 2.0, 1.3
```

```
C<<{ count =E<gt> -2, offset=E<gt> 3 }> 3.0, 2.2
```

```
C<<{ count =E<gt> -2, offset=E<gt> -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 1.00

Mark the module as public.

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