

**NAME**

AptPkg::Config - APT configuration interface

**SYNOPSIS**

```
use AptPkg::Config;
```

**DESCRIPTION**

The AptPkg::Config module provides an interface to **APT**'s configuration mechanism.

Provides a configuration file and command line parser for a tree-oriented configuration environment.

**AptPkg::Config**

The AptPkg::Config package implements the **APT** Configuration class.

A global instance of the libapt-pkg `_config` instance is provided as `$AptPkg::Config::_config`, and may be imported.

The following methods are implemented:

`get(KEY, [DEFAULT])`

Fetch the value of *KEY* from the configuration object, returning undef if not found (or *DEFAULT* if given).

If the key ends in `::`, an array of values is returned in an array context, or a string containing the values separated by spaces in a scalar context.

A trailing `/f`, `/d`, `/b` or `/i` causes file, directory, boolean or integer interpretation (the underlying XS call is `FindAny`).

`get_file(KEY, [DEFAULT])`, `get_dir(KEY, [DEFAULT])`

Variants of `get` which prepend the directory value from the parent key. The `get_dir` method additionally appends a `'/'`.

For example, given the configuration file:

```
foo "/some/dir/" { bar "value"; }
```

then:

```
$conf->get("foo::bar") # "value"
$conf->get_file("foo::bar") # "/some/dir/value"
$conf->get_dir("foo::bar") # "/some/dir/value/"
```

`get_bool(KEY, [DEFAULT])`

Another `get` variant, which returns true (1) if the value contains any of:

```
1 yes true with on enable
```

otherwise false (").

`set(KEY, VALUE)`

Set configuration entry *KEY* to *VALUE*. Returns *VALUE*. Note that empty parent entries may be created for *KEYS* containing `::`.

`exists(KEY)`

Test if *KEY* exists in the configuration.

`dump`

Principally for debugging, output the contents of the configuration object to `stderr`.

`read_file(FILE, [AS_SECTIONAL, [DEPTH]])`

Load the contents of *FILE* into the object. The format of the file is described in *apt.conf*(5).

If the *AS\_SECTIONAL* argument is true, then the file is parsed as a BIND-style config. That is:

```
foo "bar" { baz "quux"; }
```

is interpreted as if it were:

```
foo::bar { baz "quux"; }
```

The *DEPTH* argument may be used to restrict the number of nested include directives processed.

`read_dir(DIR, [AS_SECTIONAL, [DEPTH]])`

Load configuration from all files in *DIR*.

`init` Initialise the configuration object with some default values for the libapt-pkg library and reads the default configuration file `/etc/apt/apt.conf` (or as given by the environment variable `APT_CONFIG`) if it exists.

`system`

Return the [AptPkg::System](#) object appropriate for this system.

`parse_cmdline(DEFS, [ARG, ...])`

Parse the arguments given by *ARGs* based on the contents of *DEFS* and returns the list of remaining arguments.

Note, the function does not return if there are errors processing the args. Use `eval` to trap such errors.

*DEFS* is a reference to an array containing a set argument definition arrays. The elements of each definition define: the short argument character, the long argument string, the configuration key and the optional argument type (defaults to Boolean).

Valid argument types are defined by the strings:

`HasArg` takes an argument value (`-f foo`)

`IntLevel` defines an integer value (`-q -q, -qq, -q2, -q=2`)

`Boolean` true/false (`-d, -d=true, -d=yes, --no-d, -d=false, etc`)

`InvBoolean` same as Boolean but false with no specified sense (`-d`)

`ConfigFile` load the specified configuration file

`ArbItem` arbitrary configuration string of the form `key=value`

The configuration key in the last two cases is ignored, and for the rest gives the key into which the value is placed.

Single case equivalents also work (`has_arg == HasArg`).

Example:

```
@files = $conf->parse_cmdline([
  [ 'h', 'help', 'help' ],
  [ 'v', 'version', 'version' ],
  [ 'c', 'config-file', '', ConfigFile ],
  [ 'o', 'option', '', ArbItem ],
], @ARGV);
```

The module uses [AptPkg::hash](#) to provide a hash-like access to the object, so that `$conf->{key}` is equivalent to using the `get/set` methods.

Additionally inherits the constructor (`new`) and `keys` methods from that module.

Methods of the internal XS object (`AptPkg::_config`) such as `Find` may also be used. See [AptPkg](#).

### **AptPkg::Config::Iter**

Iterator object for [AptPkg::Config](#) which is returned by the `keys` method.

`new(XS_OBJ, [ROOT])`

Constructor, which is invoked by the `keys` method. *ROOT*, if given determines the subset of the tree to walk (may be given as an argument to `keys`).

`next`

Returns the current key and advances to the next.

### SEE ALSO

[AptPkg::System](#) [AptPkg\(3pm\)](#), [AptPkg::hash](#)

### AUTHOR

Brendan O'Dea <[bod@debian.org](mailto:bod@debian.org)>