

# AptPkg(3pm)

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AptPkg(3pm)    User Contributed Perl Documentation    AptPkg(3pm)

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## NAME

AptPkg - interface to libapt-pkg

## SYNOPSIS

```
use AptPkg;
```

## DESCRIPTION

The AptPkg module provides a low-level XS interface to libapt-pkg.

Note that this interface is intended to be internal, and may change, see the AptPkg::Config, AptPkg::System, AptPkg::Version, AptPkg::Cache, Apt::Policy and AptPkg::Source classes for a higher level interface.

## AptPkg

The AptPkg package provides the following functions:

**`__init_config(CONF)`** Initialise a Configuration object (pkgInitConfig). See the init method in AptPkg::Config.

**`__init_system(CONF)`** Return a pointer to the system object (pkgInitSystem). See the system method in AptPkg::Config.

**`__parse_cmdline(CONF, ARG_DEFS, ...)`** Constructs a `CommandLine` instance, invokes the `Parse` method and returns the remaining arguments. See the `parse_cmdline` method in `AptPkg::Config`.

## **`AptPkg::__config`**

The `AptPkg::__config` package wraps a Perl class around the `Configuration` class. It provides an instance of the global `__config` object, and exposes the following methods:

`Find`, `FindFile`, `FindDir`, `FindB`, `FindAny`, `Set`, `Exists`,  
`ExistsAny`, `Tree` and `Dump`.

The functions `ReadConfigFile` and `ReadConfigDir` are also provided within the package and may be used as methods.

## **`AptPkg::__config::item`**

The `AptPkg::__config::item` package wraps a Perl class around the `Configuration::Item` class. The `AptPkg::__config Tree` method returns an instance of this class.

Methods:

`Value`, `Tag`, `FullTag`, `Parent`, `Child` and `Next`.

## **`AptPkg::System`**

The `AptPkg::System` package wraps a Perl class around the `pkgSystem` class. It provides an instance of the global `__system` object, and exposes the following methods:

`Label`, `VS`, `Lock` and `UnLock`.

## **`AptPkg::Version`**

The `AptPkg::Version` package wraps a Perl class around the `pkgVersioningSystem` class. It exposes the following methods:

`Label`, `CmpVersion`, `CmpReleaseVer`, `CheckDep` and `UpstreamVersion`.

## **AptPkg::\_cache**

The AptPkg::\_cache package wraps a Perl class around the pkgCacheFile class. It exposes the following methods:

Open, Close, FindPkg, PkgBegin, FileList, Packages, Policy, MultiArchCache and NativeArch.

## **AptPkg::Cache::\_package**

The AptPkg::Cache::\_package package wraps a Perl class around the pkg-Cache::PkgIterator class. It exposes the following methods:

Next, Name, FullName, Arch, Section, VersionList, CurrentVer, RevDependsList, ProvidesList, Index, SelectedState, InstState, CurrentState and Flags.

## **AptPkg::Cache::\_version**

The AptPkg::Cache::\_version package wraps a Perl class around the pkg-Cache::VerIterator class. It exposes the following methods:

VerStr, Section, MultiArch, Arch, ParentPkg, DescriptionList, TranslatedDescription, DependsList, ProvidesList, FileList, Index and Priority.

## **AptPkg::Cache::\_depends**

The AptPkg::Cache::\_depends package wraps a Perl class around the pkg-Cache::DepIterator class. It exposes the following methods:

TargetVer, TargetPkg, ParentVer, ParentPkg, Index, CompType and DepType.

## **AptPkg::Cache::\_provides**

The AptPkg::Cache::\_provides package wraps a Perl class around the pkg-Cache::PrvIterator class. It exposes the following methods:

Name, ProvideVersion, OwnerVer, OwnerPkg and Index.

## **AptPkg::Cache::\_description**

The AptPkg::Cache::\_description package wraps a Perl class around the pkg-Cache::DescIterator class. It exposes the following methods:

LanguageCode, md5 and FileList.

## **AptPkg::Cache::\_pkg\_file**

The AptPkg::Cache::\_pkg\_file package wraps a Perl class around the pkg-Cache::PkgFileIterator class. It exposes the following methods:

FileName, Archive, Component, Version, Origin, Label, Site, IndexType and Index.

## **AptPkg::Cache::\_ver\_file**

The AptPkg::Cache::\_ver\_file package wraps a Perl class around the pkg-Cache::VerFileIterator class. It exposes the following methods:

File, Index, Offset and Size.

## **AptPkg::Cache::\_desc\_file**

The AptPkg::Cache::\_desc\_file package wraps a Perl class around the pkg-Cache::DescFileIterator class. It exposes the following methods:

File

## **AptPkg::Cache::\_pkg\_records**

The AptPkg::Cache::\_pkg\_records package wraps a Perl class around the pkgRecords class. It exposes the following methods:

Lookup.

## **AptPkg::\_policy**

The AptPkg::\_policy package wraps a Perl class around the pkgPolicy class. It exposes the following methods:

GetPriority, GetMatch and GetCandidateVer.

## **AptPkg::\_source\_list**

The AptPkg::\_source\_list package wraps a Perl class around the pkgSourceList class. Required as an argument to the AptPkg::\_src\_records constructor.

## **AptPkg::\_src\_records**

The AptPkg::\_src\_records package wraps a Perl class around the pkgSrcRecords class. It exposes the following methods:

Restart, Find.

## **Constants**

The following **APT** enumerations are included, used by attributes of AptPkg::Cache.

### pkgCache::Version::VerMultiArch

“AptPkg::Version::None”, “AptPkg::Version::All”, “AptPkg::Version::Foreign”, “AptPkg::Version::Same”, “AptPkg::Version::Allowed”, “AptPkg::Version::AllForeign” and “AptPkg::Version::AllAllowed”.

### pkgCache::Dep::DepType

“AptPkg::Dep::Depends”, “AptPkg::Dep::PreDepends”, “AptPkg::Dep::Suggests”, “AptPkg::Dep::Recommends”, “AptPkg::Dep::Conflicts”, “AptPkg::Dep::Replaces” and “AptPkg::Dep::Obsoletes”.

### pkgCache::Dep::DepCompareOp

“AptPkg::Dep::Or”, “AptPkg::Dep::NoOp”, “AptPkg::Dep::LessEq”, “AptPkg::Dep::GreaterEq”, “AptPkg::Dep::Less”, “AptPkg::Dep::Greater”, “AptPkg::Dep::Equals” and “AptPkg::Dep::NotEquals”.

### pkgCache::State::VerPriority

“AptPkg::State::Important”, “AptPkg::State::Required”, “AptPkg::State::Standard”, “AptPkg::State::Optional” and “AptPkg::State::Extra”.

### pkgCache::State::PkgSelectedState

“AptPkg::State::Unknown”, “AptPkg::State::Install”, “AptPkg::State::Hold”, “AptPkg::State::DeInstall” and “AptPkg::State::Purge”.

### pkgCache::State::PkgInstState

“AptPkg::State::Ok”, “AptPkg::State::ReInstReq”, “AptPkg::State::HoldInst” and “AptPkg::State::HoldReInstReq”.

pkgCache::State::PkgCurrentState

“AptPkg::State::NotInstalled”, “AptPkg::State::UnPacked”, “AptPkg::State::HalfConfigured”,  
“AptPkg::State::HalfInstalled”, “AptPkg::State::ConfigFiles” and “AptPkg::State::Installed”.

pkgCache::Flag::PkgFlags

“AptPkg::Flag::Auto”, “AptPkg::Flag::Essential” and “AptPkg::Flag::Important”.

## SEE ALSO

AptPkg::Config(3pm), AptPkg::System(3pm), AptPkg::Version(3pm),  
AptPkg::Cache(3pm), AptPkg::Source(3pm).

## AUTHOR

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