

**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 pkgCache::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 pkgCache::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 pkgCache::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 pkgCache::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 pkgCache::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 pkgCache::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 pkgCache::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 pkgCache::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](#) [AptPkg::System](#) [AptPkg::Version](#) [AptPkg::Cache](#) [AptPkg::Source](#)

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