

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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