

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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