

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 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::No, 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,
AptPkg::Dep::Obsoletes AptPkg::Dep::DpkgBreaks and AptPkg::Dep::Enhances.

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, AptPkg::State::Installed,
AptPkg::State::TriggersAwaited and AptPkg::State::TriggersPending.

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).

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