

# AptPkg::Cache(3pm)

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

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## NAME

AptPkg::Cache - APT package cache interface

## SYNOPSIS

```
use AptPkg::Cache;
```

## DESCRIPTION

The AptPkg::Cache module provides an interface to **APT**'s package cache.

### AptPkg::Cache

The AptPkg::Cache package implements the **APT** pkgCacheFile class as a hash reference (inherits from AptPkg::hash). The hash keys are the names of packages in the cache, and the values are AptPkg::Cache::Package objects (which in turn appear as hash references, see below).

#### Constructor

**new**(**[LOCK]**) Instantiation of the object uses configuration from the `$AptPkg::Config::_config` and `$AptPkg::System::_system` objects (automatically initialised if not done explicitly).

The cache initialisation can be quite verbose—controlled by the value of `$_config->{quiet}`, which is set to “2” (quiet) if the `$_config` object is auto-initialised.

The cache directory is locked if `LOCK` is true.

It is important to note that the structure of the returned object contains self-referential elements, so some care must be taken if attempting to traverse it recursively.

### Methods

**files** Return a list of `AptPkg::Cache::PkgFile` objects describing the package files.

**packages** Return an `AptPkg::PkgRecords` object which may be used to retrieve additional information about packages.

**get, exists, keys** These methods are used to implement the hashref abstraction: `$obj->get($pack)` and `$obj->{$pack}` are equivalent.

**is\_multi\_arch** Cache is multi-arch enabled.

**native\_arch** Native architecture.

## **AptPkg::Cache::Package**

Implements the **APT** `pkgCache::PkgIterator` class as a hash reference.

### Keys

**Name**

**Section**

**Arch** Package name, section and architecture.

**FullName** Fully qualified name, including architecture.

**ShortName** The shortest unambiguous package name: the same as “Name” for native packages, and “FullName” for non-native.

**SelectedState**

## **InstState**

**CurrentState** Package state from the status file.

SelectedState may be “Unknown”, “Install”, “Hold”, “DeInstall” or “Purge”.

InstState may be “Ok”, “ReInstReq”, “HoldInst” or “HoldReInstReq”.

CurrentState may be “NotInstalled”, “UnPacked”, “HalfConfigured”, “HalfInstalled”, “ConfigFiles” or “Installed”.

In a numeric context, SelectedState, InstState and CurrentState evaluate to an AptPkg::State:: constant.

**VersionList** A reference to an array of AptPkg::Cache::Version objects describing available versions of the package.

**CurrentVer** An AptPkg::Cache::Version object describing the currently installed version (if any) of the package.

**RevDependsList** A reference to an array of AptPkg::Cache::Depends objects describing packages which depend upon the current package.

**ProvidesList** For virtual packages, this is a reference to an array of AptPkg::Cache::Provides objects describing packages which provide the current package.

**Flags** A comma separated list of flags: “Auto”, “Essential” or “Important”.

In a numeric context, evaluates to a combination of AptPkg::Flag:: constants.

[Note: the only one of these you need worry about is “Essential”, which is set based on the package’s header of the same name. “Auto” seems to be used internally by **APT**, and “Important” seems to only be set on the apt package.]

**Index** Internal **APT** unique reference for the package record.

## **AptPkg::Cache::Version**

Implements the **APT** pkgCache::VerIterator class as a hash reference.

Keys

**VerStr**

**Section**

**Arch** The package version, section and architecture.

**MultiArch** Multi-arch state: “None”, “All”, “Foreign”, “Same”, “Allowed”, “AllForeign” or “AllAllowed”.

In a numeric context, evaluates to an `AptPkg::Version::` constant.

**ParentPkg** An `AptPkg::Cache::Package` object describing the package providing this version.

**DescriptionList** A list of `AptCache::Cache::Description` objects describing the files which describe a package version. The list includes both `Package` files and `Translation` files, which contain translated `Description` fields.

**TranslatedDescription** An `AptCache::Cache::Description` object for the current locale, which will generally be a `Translation` file.

**DependsList** A reference to an array of `AptPkg::Cache::Depends` objects describing packages which the current package depends upon.

**ProvidesList** A reference to an array of `AptPkg::Cache::Provides` objects describing virtual packages provided by this version.

**FileList** A reference to an array of `AptPkg::Cache::VerFile` objects describing the package files which include the current version.

**Size** The `.deb` file size, in bytes.

**InstalledSize** The disk space used when installed, in bytes.

**Index** Internal **APT** unique reference for the version record.

**Priority** Package priority: “important”, “required”, “standard”, “optional” or “extra”.

In a numeric context, evaluates to an `AptPkg::VerPriority::` constant.

## AptPkg::Cache::Depends

Implements the **APT** pkgCache::DepIterator class as a hash reference.

### Keys

**DepType** Type of dependency: “Depends”, “PreDepends”, “Suggests”, “Recommends”, “Conflicts”, “Replaces” or “Obsoletes”.

In a numeric context, evaluates to an AptPkg::Dep:: constant.

### ParentPkg

**ParentVer** AptPkg::Cache::Package and AptPkg::Cache::Version objects describing the package declaring the dependency.

**TargetPkg** AptPkg::Cache::Package object describing the depended package.

**TargetVer** For versioned dependencies, TargetVer is a string giving the version of the target package required.

### CompType

**CompTypeDeb** CompType gives a normalised comparison operator (>, >=, etc) describing the relationship to TargetVer (“” if none).

CompTypeDeb returns Debian-style operators (>> rather than >).

In a numeric context, both CompType and CompTypeDeb evaluate to an AptPkg::Dep:: constant.

Alternative dependencies (Depends: a | b) are identified by all but the last having the AptPkg::Dep::Or bit set in the numeric representation of CompType (and CompTypeDeb).

**Index** Internal **APT** unique reference for the dependency record.

## AptPkg::Cache::Provides

Implements the **APT** pkgCache::PrvIterator class as a hash reference.

### Keys

**Name** Name of virtual package.

## **OwnerPkg**

**OwnerVer** AptPkg::Cache::Package and AptPkg::Cache::Version objects describing the providing package.

**ProvideVersion** Version of the virtual package. [Not currently supported by dpkg]

**Index** Internal **APT** unique reference for the provides record.

## **AptPkg::Cache::VerFile**

Implements the **APT** pkgCache::VerFileIterator class as a hash reference.

### Keys

**File** An AptPkg::Cache::PkgFile object describing the packages file.

### **Offset**

**Size** The byte offset and length of the entry in the file.

**Index** Internal **APT** unique reference for the version file record.

## **AptPkg::Cache::PkgFile**

Implements the **APT** pkgCache::PkgFileIterator class as a hash reference.

### Keys

**FileName** Packages file path.

**IndexType** File type: “Debian Package Index”, “Debian dpkg status file”.

### **Archive**

### **Component**

### **Version**

### **Origin**

**Label**

**Site** Fields from the Release file.

**IsOk** True if the cache is in sync with this file.

**Index** Internal **APT** unique reference for the package file record.

## **AptPkg::Cache::DescFile**

Implements the **APT** pkgCache::DescFileIterator class as a hash reference.

### Keys

**File** An AptPkg::Cache::PkgFile object describing the packages file.

## **SEE ALSO**

AptPkg::Config(3pm), AptPkg::System(3pm), AptPkg(3pm), AptPkg::hash(3pm),  
AptPkg::PkgRecords(3pm), AptPkg::Policy(3pm).

## **AUTHOR**

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