yaah

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Chapter 1

yaah

1.1 Yet another AUR helper

yaah is an AUR helper written in c# capable of installing/updating AUR packages and their AUR dependencies

1.2 Features

- Installing/Uninstalling AUR packages
- Serializing graph for given packages

1.3 Installation/Cloning

1.3.1 Arch Linux based systems

```
sudo pacman -S --needed git base-devel dotnet-runtime-8.0; git clone https://github.com/inquaterni/yaah.git;
      cd ./yaah
```

1.3.2 On Windows through WSL 2

Check if `archlinux` is available

```
wsl -l -o
```

If `archlinux` is in list, install it with

```
wsl --install archlinux
```

Proceed to Arch Linux installation

1.4 Usage

1.4.1 Basic

Print help

```
dotnet run --project ./Yaah.CLI/Yaah.CLI.csproj -- --help
```

Install/Update packages

```
dotnet run --project ./Yaah.CLI/Yaah.CLI.csproj -S <aur-package-name> <another-aur-package-name> ...
```

1.4.2 Debug

Enable debug logging level

```
dotnet run --project ./Yaah.CLI/Yaah.CLI.csproj -D <other options>
```

Serialize graph for given package (does not install package)

```
dotnet run --project ./Yaah.CLI/Yaah.CLI.csproj -Dg <aur-package-name> <output-path>
```

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

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Yaah.CLI 9
Yaah.DReS 9
Yaah.DReS.Optional 9
Yaah.Infrastructure 9
Yaah.Infrastructure.Alpm 9
Yaah.Infrastructure.Database 10
Yaah.Infrastructure.Errors 10
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Yaah.Infrastructure.Process 10
Yaah.Infrastructure.Versioning 10
Yaah.Net 10
Yaah.Net.InfoGathering 10
Yaah.Net.Models 10
Yaah.Net.RPC 10

Chapter 3

Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Yaah.Net.Models.BasicPkgInfo 11
Yaah.Net.Models.DetailedPkgInfo 15
Yaah.Infrastructure.Errors.ErrorTranslator 15
Yaah.DReS.Graph 16
IDisposable
    Yaah.Infrastructure.Database.DatabaseController 12
    Yaah.Net.RPC.RpcEngine 20
IDotEngine
    Yaah.DReS.Optional.FileDotEngine 16
Yaah.Net.Models.InfoResult 18
Yaah.Infrastructure.Alpm.LibAlpm 18
Yaah.Net.InfoGathering.PackageInspector 19
Yaah.Net.Models.SearchResult 23
Yaah.Infrastructure.Process.ShellRunner 23
Yaah.Infrastructure.Versioning.VersionController 23

Chapter 4

Class Index

4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Yaah.Infrastructure.Database.DatabaseController 12
Yaah.Net.Models.DetailedPkgInfo 15
Yaah.Infrastructure.Errors.ErrorTranslator 15
Yaah.DReS.Optional.FileDotEngine 16
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Yaah.Net.InfoGathering.PackageInspector 19
Yaah.Net.RPC.RpcEngine 20
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Yaah.Infrastructure.Process.ShellRunner 23
Yaah.Infrastructure.Versioning.VersionController 23

Chapter 5

Namespace Documentation

5.1 Yaah Namespace Reference

5.2 Yaah.CLI Namespace Reference

Classes

- class **Options**
- class **Program**

5.3 Yaah.DReS Namespace Reference

Classes

- class Graph

5.4 Yaah.DReS.Optional Namespace Reference

Classes

- class FileDotEngine

5.5 Yaah.Infrastructure Namespace Reference

5.6 Yaah.Infrastructure.Alpm Namespace Reference

Classes

- class LibAlpm

5.7 Yaah.Infrastructure.Database Namespace Reference

Classes

- class DatabaseController

5.8 Yaah.Infrastructure.Errors Namespace Reference

Classes

- class ErrorTranslator

5.9 Yaah.Infrastructure.Errors.Exceptions Namespace Reference

5.10 Yaah.Infrastructure.Process Namespace Reference

Classes

- class ShellRunner

5.11 Yaah.Infrastructure.Versioning Namespace Reference

Classes

- class VersionController

5.12 Yaah.Net Namespace Reference

5.13 Yaah.Net.InfoGathering Namespace Reference

Classes

- class PackageInspector

5.14 Yaah.Net.Models Namespace Reference

Classes

- class BasicPkgInfo
- class DetailedPkgInfo
- class InfoResult
- class SearchResult

5.15 Yaah.Net.RPC Namespace Reference

Classes

- class RpcEngine

Chapter 6

Class Documentation

6.1 Yaah.Net.Models.BasicPkgInfo Class Reference

Properties

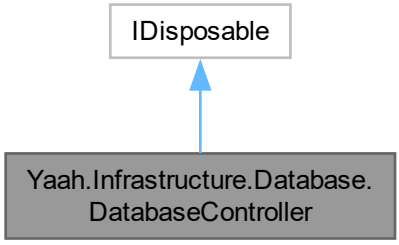
- string **Description** `[get, set]`
- ulong **FirstSubmitted** `[get, set]`
- int **Id** `[get, set]`
- ulong **LastModified** `[get, set]`
- string **Maintainer** `[get, set]`
- string **Name** `[get, set]`
- int **NumVotes** `[get, set]`
- long? **OutOfDate** `[get, set]`
- string **PackageBase** `[get, set]`
- int **PackageBaseId** `[get, set]`
- double **Popularity** `[get, set]`
- string **Url** `[get, set]`
- string **UrlPath** `[get, set]`
- string **Version** `[get, set]`

The documentation for this class was generated from the following file:

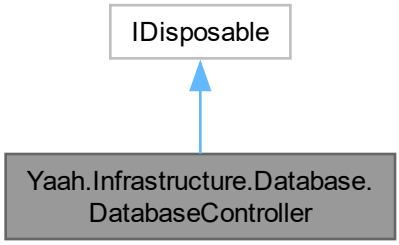
- Yaah.Net/Models/BasicPkgInfo.cs

6.2 Yaah.Infrastructure.Database.DatabaseController Class Reference

Inheritance diagram for Yaah.Infrastructure.Database.DatabaseController:



Collaboration diagram for Yaah.Infrastructure.Database.DatabaseController:



Public Member Functions

- void **Dispose** ()
- IntPtr GetLocalDb ()

  Get pointer to local db struct.
- AlpmList< AlpmDbListNode > **GetSyncDbs** ()
- IntPtr **RegisterSyncDb** (string treename, int siglevel)

Static Public Member Functions

- static IntPtr **GetDbFromPackage** (IntPtr pkg)
- static string **GetDbName** (IntPtr dbHandle)
- static IntPtr GetPackage (IntPtr dbHandle, string name)

  Get pointer to package struct.
- static AlpmList< AlpmPkgListNode > GetPackageCache (IntPtr dbHandle)
- static string GetPackageName (IntPtr pkg)
- static string GetPackageVersion (IntPtr pkg)

6.2.1 Member Function Documentation

6.2.1.1 GetLocalDb()

```
IntPtr Yaah.Infrastructure.Database.DatabaseController.GetLocalDb ()  [inline]
```

Get pointer to local db struct.

Returns

Pointer to local db

Exceptions

DatabaseException	Occurs when alpm_get_localdb fails

https://man.archlinux.org/man/libalpm_databases.3.en

6.2.1.2 GetPackage()

```
static IntPtr Yaah.Infrastructure.Database.DatabaseController.GetPackage (
            IntPtr dbHandle,
            string name)  [inline], [static]
```

Get pointer to package struct.

Parameters

dbHandle	Pointer to local db
name	Package name

Returns

Pointer to package struct

Exceptions

DatabaseException	Occurs when alpm_db_get_pkg fails (e.g. attempt to get nonexisting package)
ArgumentNullException	Occurs when `dbHandle` is NULL

6.2.1.3 GetPackageCache()

```
static AlpmList< AlpmPkgListNode > Yaah.Infrastructure.Database.DatabaseController.GetPackage↩
Cache (
            IntPtr dbHandle)  [inline], [static]
```

Parameters

dbHandle	

Returns

Exceptions

ArgumentNullException	Occurs when `dbHandle` is NULL
DatabaseException	Occurs when alpm_db_get_pkgcache fails

6.2.1.4 GetPackageName()

```
static string Yaah.Infrastructure.Database.DatabaseController.GetPackageName (
            IntPtr pkg)  [inline], [static]
```

Parameters

pkg	Pointer to package struct

Returns

Package name

Exceptions

ArgumentNullException	Occurs when pointer is NULL

6.2.1.5 GetPackageVersion()

```
static string Yaah.Infrastructure.Database.DatabaseController.GetPackageVersion (
            IntPtr pkg)  [inline], [static]
```

Parameters

pkg	Pointer to package struct

Returns

Package version

Exceptions

ArgumentNullException	Occurs when pointer is NULL

The documentation for this class was generated from the following file:

- Yaah.Infrastructure/Database/DatabaseController.cs

6.3 Yaah.Net.Models.DetailedPkgInfo Class Reference

Properties

- string?[ ] **CheckDepends** `[get, set]`
- string[ ] **CoMaintainers** `[get, set]`
- string[ ] **Conflicts** `[get, set]`
- string?[ ] **Depends** `[get, set]`
- string **Description** `[get, set]`
- ulong **FirstSubmitted** `[get, set]`
- string[ ] **Groups** `[get, set]`
- int **Id** `[get, set]`
- string[ ] **Keywords** `[get, set]`
- ulong **LastModified** `[get, set]`
- string[ ] **Licence** `[get, set]`
- string **Maintainer** `[get, set]`
- string?[ ] **MakeDepends** `[get, set]`
- string **Name** `[get, set]`
- int **NumVotes** `[get, set]`
- string?[ ] **OptDepends** `[get, set]`
- long? **OutOfDate** `[get, set]`
- string **PackageBase** `[get, set]`
- int **PackageBaseId** `[get, set]`
- double **Popularity** `[get, set]`
- string[ ] **Provides** `[get, set]`
- string[ ] **Replaces** `[get, set]`
- string **Submitter** `[get, set]`
- string **Url** `[get, set]`
- string **UrlPath** `[get, set]`
- string **Version** `[get, set]`

The documentation for this class was generated from the following file:

- Yaah.Net/Models/DetailedPkgInfo.cs

6.4 Yaah.Infrastructure.Errors.ErrorTranslator Class Reference

Static Public Member Functions

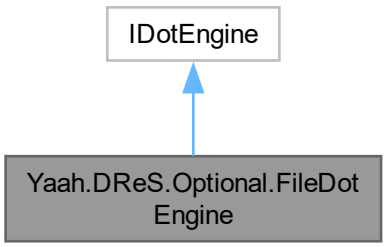
- static int **GetErrorFromHandle** (IntPtr handle)
- static string **TranslateAlpmError** (int errCode)
- static string **TranslateAlpmError** (IntPtr handle)

The documentation for this class was generated from the following file:

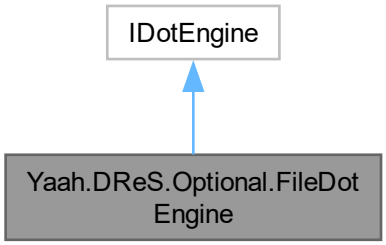
- Yaah.Infrastructure/Errors/ErrorTranslator.cs

6.5 Yaah.DReS.Optional.FileDotEngine Class Reference

Inheritance diagram for Yaah.DReS.Optional.FileDotEngine:



Collaboration diagram for Yaah.DReS.Optional.FileDotEngine:



Public Member Functions

- string **Run** (GraphvizImageType imageType, string dot, string outputFileName)

The documentation for this class was generated from the following file:

- Yaah.DReS/Serialization/FileDotEngine.cs

6.6 Yaah.DReS.Graph Class Reference

Static Public Member Functions

- static AdjacencyGraph< string, Edge< string > > BuildFor (IEnumerable< string > pkgExplicit, Hashtable table)

  Build graph for given AUR packages `pkgExplicit`.
- static AdjacencyGraph< string, Edge< string > > BuildFor (string pkgExplicit, Hashtable table)

  Build graph for given AUR package `pkgExplicit`.
- static IEnumerable< string > **GetInstallOrder** (AdjacencyGraph< string, Edge< string > > graph)

6.6.1 Member Function Documentation

6.6.1.1 BuildFor() [1/2]

```
static AdjacencyGraph< string, Edge< string > > Yaah.DReS.Graph.BuildFor (
            IEnumerable< string > pkgExplicit,
            Hashtable table)  [inline], [static]
```

Build graph for given AUR packages `pkgExplicit`.

Parameters

pkgExplicit	AUR explicit package names
table	Hashtable with gathered packages data

Returns

Dependency Graph

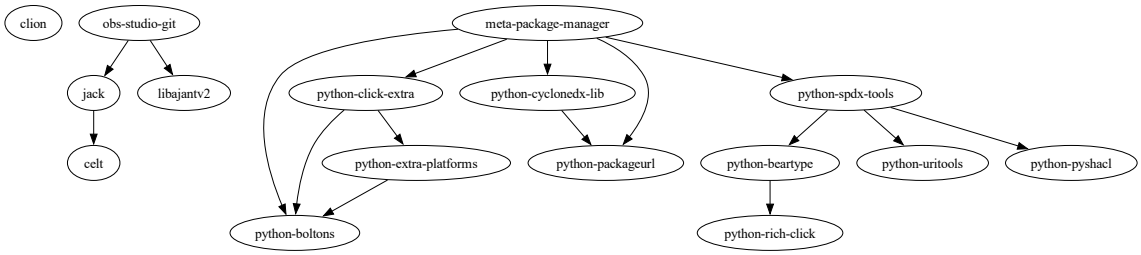


Figure 6.1 Example graph for meta-package-manager, obs-studio-git and clion packages

6.6.1.2 BuildFor() [2/2]

```
static AdjacencyGraph< string, Edge< string > > Yaah.DReS.Graph.BuildFor (
            string pkgExplicit,
            Hashtable table)  [inline], [static]
```

Build graph for given AUR package `pkgExplicit`.

Parameters

pkgExplicit	AUR explicit package name
table	Hashtable with gathered packages data

Returns

Dependency Graph

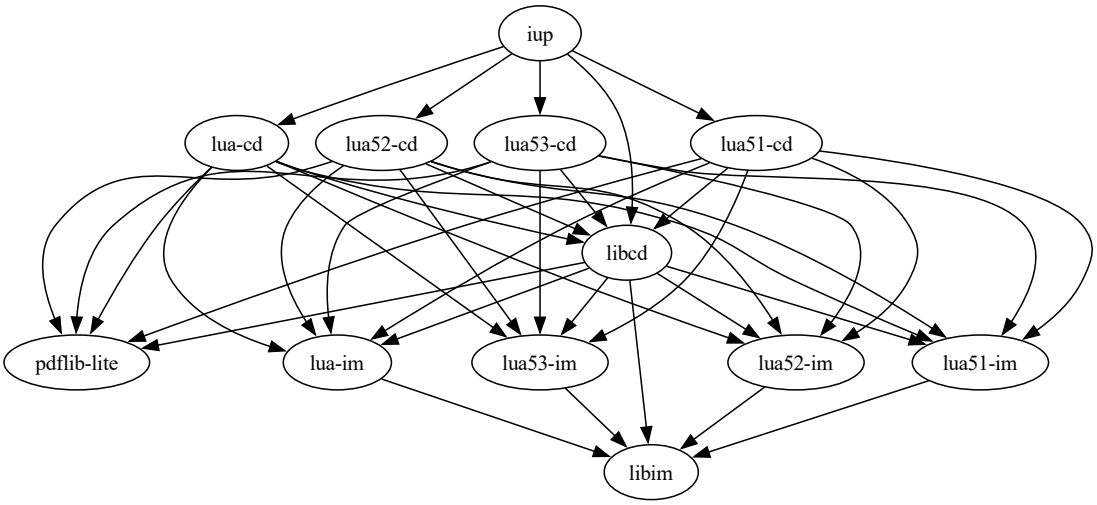


Figure 6.2 Example graph for iup package

The documentation for this class was generated from the following file:

- Yaah.DReS/Graph.cs

6.7 Yaah.Net.Models.InfoResult Class Reference

Properties

- int **ResultCount** `[get, set]`
- DetailedPkgInfo[ ] **Results** `[get, set]`
- string **Type** `[get, set]`
- int **Version** `[get, set]`

The documentation for this class was generated from the following file:

- Yaah.Net/Models/InfoResult.cs

6.8 Yaah.Infrastructure.Alpm.LibAlpm Class Reference

Static Public Member Functions

- static partial string **alpm_db_get_name** (IntPtr db)
- static partial IntPtr **alpm_db_get_pkg** (IntPtr db, [MarshalAs(UnmanagedType.LPStr)] string name)
- static partial IntPtr **alpm_db_get_pkgcache** (IntPtr db)
- static partial int **alpm_errno** (IntPtr handle)

- static partial IntPtr **alpm_get_localdb** (IntPtr handle)
- static partial IntPtr **alpm_get_syncdbs** (IntPtr handle)
- static partial IntPtr **alpm_initialize** ([MarshalAs(UnmanagedType.LPStr)] string root, [MarshalAs(Unmanaged↩ Type.LPStr)] string dbpath, out int err)
- static partial IntPtr **alpm_list_next** (IntPtr list)
- static partial IntPtr **alpm_pkg_get_db** (IntPtr pkg)
- static partial string **alpm_pkg_get_name** (IntPtr pkg)
- static partial string **alpm_pkg_get_version** (IntPtr pkg)
- static partial int **alpm_pkg_vercmp** ([MarshalAs(UnmanagedType.LPStr)] string a, [MarshalAs(Unmanaged↩ Type.LPStr)] string b)
- static partial IntPtr **alpm_register_syncdb** (IntPtr handle, [MarshalAs(UnmanagedType.LPStr)] string treename, int siglevel)
- static partial int **alpm_release** (IntPtr handle)
- static partial IntPtr **alpm_strerror** (int err)

The documentation for this class was generated from the following file:

- Yaah.Infrastructure/Alpm/LibAlpm.cs

6.9 Yaah.Net.InfoGathering.PackageInspector Class Reference

Public Member Functions

- async Task< Hashtable > GatherPackageInfo (IEnumerable< string > aurExplicit)

  Gather packages information.
- async Task< Hashtable > GatherPackageInfo (string aurExplicit)

  Gather package information.
- **PackageInspector** (IntPtr db)

6.9.1 Member Function Documentation

6.9.1.1 GatherPackageInfo() [1/2]

```
async Task< Hashtable > Yaah.Net.InfoGathering.PackageInspector.GatherPackageInfo (
            IEnumerable< string > aurExplicit)  [inline]
```

Gather packages information.

Parameters

aurExplicit	Explicit AUR packages names

6.9.1.2 GatherPackageInfo() [2/2]

```
async Task< Hashtable > Yaah.Net.InfoGathering.PackageInspector.GatherPackageInfo (
            string aurExplicit)  [inline]
```

Gather package information.

Parameters

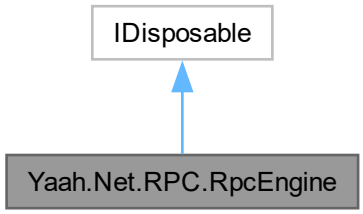
aurExplicit	Explicit AUR package name

The documentation for this class was generated from the following file:

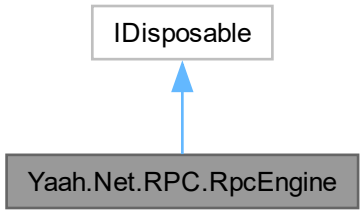
- Yaah.Net/InfoGathering/PackageInspector.cs

6.10 Yaah.Net.RPC.RpcEngine Class Reference

Inheritance diagram for Yaah.Net.RPC.RpcEngine:



Collaboration diagram for Yaah.Net.RPC.RpcEngine:



Public Member Functions

- void **Dispose** ()
- async Task< InfoResult?> Info (IEnumerable< string > arg, CancellationToken token=default)

  Multi package lookup.
- async Task< InfoResult?> Info (string arg, CancellationToken token=default)

  Single package lookup.

- async Task< SearchResult?> Search (string arg, string by="name-desc", CancellationToken token=default)

  Single-term search.
- async Task< string[ ]?> Suggest (string arg, CancellationToken token=default)

  Package name search (starts-with)
- async Task< string[ ]?> SuggestPkgbase (string arg, CancellationToken token=default)

  Package base search (starts-with)

6.10.1 Member Function Documentation

6.10.1.1 Info() [1/2]

```
async Task< InfoResult?> Yaah.Net.RPC.RpcEngine.Info (
            IEnumerable< string > arg,
            CancellationToken token = default)  [inline]
```

Multi package lookup.

Parameters

arg	Provide one or more package names in the `arg` parameter.

Returns

Get detailed information for multiple packages

Parameters

token	Cancellation token

6.10.1.2 Info() [2/2]

```
async Task< InfoResult?> Yaah.Net.RPC.RpcEngine.Info (
            string arg,
            CancellationToken token = default)  [inline]
```

Single package lookup.

Parameters

arg	Provide a package name in the `arg` parameter.

Returns

Get detailed information for a single package

Parameters

token	Cancellation token

6.10.1.3 Search()

```
async Task< SearchResult?> Yaah.Net.RPC.RpcEngine.Search (
            string arg,
            string by = "name-desc",
            CancellationToken token = default)  [inline]
```

Single-term search.

Parameters

arg	Provide your search-term in the `arg` parameter.
by	The by parameter lets you define the field that is used in the search query. If not defined, name-desc is used. For name and name-desc a contains-like lookup is performed whereas all other fields require an exact value.
token	Cancellation token

Returns

Search for packages with a single term returning basic package information

6.10.1.4 Suggest()

```
async Task< string[]?> Yaah.Net.RPC.RpcEngine.Suggest (
            string arg,
            CancellationToken token = default)  [inline]
```

Package name search (starts-with)

Parameters

arg	Provide your search-term in the `arg` parameter.
token	Cancellation token

Returns

Returns a list of package-names starting with `arg` (max 20 results)

6.10.1.5 SuggestPkgbase()

```
async Task< string[]?> Yaah.Net.RPC.RpcEngine.SuggestPkgbase (
            string arg,
            CancellationToken token = default)  [inline]
```

Package base search (starts-with)

Parameters

arg	Provide your search-term in the `arg` parameter.
token	Cancellation token

Returns

Returns a list of package-base-names starting with `arg` (max 20 results)

The documentation for this class was generated from the following file:

- Yaah.Net/RPC/RpcEngine.cs

6.11 Yaah.Net.Models.SearchResult Class Reference

Properties

- uint **ResultCount** `[get, set]`
- BasicPkgInfo[] **Results** `[get, set]`
- string **Type** `[get, set]`
- int **Version** `[get, set]`

The documentation for this class was generated from the following file:

- Yaah.Net/Models/SearchResult.cs

6.12 Yaah.Infrastructure.Process.ShellRunner Class Reference

Static Public Member Functions

- static void **Run** (string cmd)

The documentation for this class was generated from the following file:

- Yaah.Infrastructure/Process/ShellRunner.cs

6.13 Yaah.Infrastructure.Versioning.VersionController Class Reference

Static Public Member Functions

- static ? Match **GetVersionMatch** (string pkg)
- static int VersionComparison (string a, string b)

  Compare two version strings and determine which one is 'newer'. Returns a value comparable to the way strcmp works. Returns 1 if `a` is newer than `b`, 0 if a and b are the same version, or -1 if `b` is newer than `a`. Different epoch values for version strings will override any further comparison. If no epoch is provided, 0 is assumed. Keep in mind that the pkgrel is only compared if it is available on both versions handed to this function. For example, comparing 1.5-1 and 1.5 will yield 0; comparing 1.5-1 and 1.5-2 will yield -1 as expected. This is mainly for supporting versioned dependencies that do not include the pkgrel.

6.13.1 Member Function Documentation

6.13.1.1 VersionComparison()

```
static int Yaah.Infrastructure.Versioning.VersionController.VersionComparison (
            string a,
            string b)  [inline], [static]
```

Compare two version strings and determine which one is 'newer'. Returns a value comparable to the way strcmp works. Returns 1 if `a` is newer than `b`, 0 if a and b are the same version, or -1 if `b` is newer than `a`. Different epoch values for version strings will override any further comparison. If no epoch is provided, 0 is assumed. Keep in mind that the pkgrel is only compared if it is available on both versions handed to this function. For example, comparing 1.5-1 and 1.5 will yield 0; comparing 1.5-1 and 1.5-2 will yield -1 as expected. This is mainly for supporting versioned dependencies that do not include the pkgrel.

https://man.archlinux.org/man/libalpm_packages.3.en

The documentation for this class was generated from the following file:

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