

NAME

pkg query - query information for packages

SYNOPSIS

pkg query <query-format> <pkg-name>

pkg query [-a] <query-format>

pkg query -F <pkg-file> <query-format>

pkg query [-Cgix] [-e <evaluation-condition>] <query-format> <pattern> <...>

pkg query [--all] <query-format>

pkg query --file <pkg-file> <query-format>

pkg query [--{case-sensitive,glob,case-insensitive,regex}] [--evaluate <evaluation-condition>]
<query-format> <pattern> <...>

DESCRIPTION

pkg query is used for displaying information about packages.

OPTIONS

The following options are supported by **pkg query**:

-a, --all Match all packages from the database

-C, --case-sensitive

Make the standard or the regular expression (-x) matching against *pkg-name* in pattern case sensitive.

-e, --evaluate

Match packages using the given *evaluation-condition*. See *EVALUATION FORMAT* for details.

-F pkg-file, --file pkg-file

Display information only for the package file *pkg-name*.

-i, --case-insensitive

Make the standard or regular expression (-x) matching against *pkg-name* in pattern case insensitive. This is the default, unless modified by setting `CASE_SENSITIVE_MATCH` to true in *pkg.conf*.

-g, --glob

Treat <pattern> as a glob pattern.

-x, --regex

Treat <pattern> as a regular expression according to the "modern" or "extended" syntax of `re_format(7)`.

QUERY FORMAT

There are two types of keywords for the query format: the multiline and the normal one. Only one type of multiline pattern is accepted for a given query.

Normal patterns

%n

Name of the matched package

%v

Version of the matched package

%o

Origin of the matched package

%p

Prefix of the matched package

%m

Maintainer of the matched package

%c

Comment of the matched package

%e

Description of the matched package

%w

Home page of the matched package

%V

Returns 0 if the package is not marked as "vital", and 1 if the package is marked "vital".

%l

License logic of the matched package - nothing for single, & for AND, and | for OR

%s[bh]

The flat size of the matched package, where **b** is in bytes, and **h** is in human readable format.

%a

Returns 1 if the matched package was automatically installed as a dependency of another package, 0 otherwise. The package can be automatically removed via 'pkg autoremove' when this flag is set and no other package depends on it.

%Q

Alternative architecture of the matches package

%q

Architecture of the matched package

%k

Returns 1 if the matched package is locked against modification or deletion, 0 otherwise

%M

message contained in the matched package

%t

Timestamp that the package was installed

%R

The name of the repository from which the package was installed if available, or "unknown-repository" otherwise.

%X

Internal package checksum

%?[drCFODLUGBbA]

Returns 0 if the list is empty and 1 if the list has information to display.

d for dependencies

r for reverse dependencies

C for categories

F for files

- O** for options
- D** for directories
- L** for licenses
- U** for users
- G** for groups
- B** for required shared libraries
- b** for provided shared libraries
- A** for annotations

%#[drCFODLUGBbA]

Returns the number of elements in the list

- d** for dependencies
- r** for reverse dependencies
- C** for categories
- F** for files
- O** for options
- D** for directories
- L** for licenses
- U** for users
- G** for groups
- b** for shared
- B** for required shared libraries

b for provided shared libraries

A for annotations

Multiline patterns

%d[nov]

Expands to the list of dependencies for the matched package, where **n** stands for the package name, **o** for the package origin, and **v** for the package version.

%r[nov]

Expands to the list of reverse dependencies for the matched package, where **n** stands for the package name, **o** for the package origin, and **v** for the package version.

%C

Expands to the list of categories the matched package belongs to.

%F[ps]

Expands to the list of files of the matched package, where **p** stands for path, and **s** for sum.

%D

Expands to the list of directories of the matched package.

%O[kvdD]

Expands to the list of options of the matched package, where **k** stands for option key, **v** for option value, **d** for option default value and **D** for option description. Option default values and descriptions are optional metadata and may be blank for certain packages.

%L

Expands to the list of license(s) for the matched package.

%U

Expands to the list of users needed by the matched package.

%G

Expands to the list of groups needed by the matched package.

%B

Expands to the list of shared libraries used by programs from the matched package.

%b

Expands to the list of shared libraries provided by the matched package.

%A[*tv*]

Expands to the list of annotations for the matched package, where **t** stands for the annotation tag, and **v** stands for the annotation value.

EVALUATION FORMAT

Packages can be selected by using expressions comparing *Variables* (see below) to string or integer values. The mode of comparison is specified by the *Operator* (also listed below). Expressions can be combined using **&&** (for and) and **||** (for or). Parentheses can be used for grouping in the usual manner.

String values are either any text not containing whitespace (possibly followed by but not including whitespace) or any text enclosed in single or double quotes.

Variables

%n

Name of the package (type string)

%o

Origin of the package (type string)

%p

Prefix of the package (type string)

%m

Maintainer of the package (type string)

%c

Comment of the package (type string)

%e

Description of the package (type string)

%w

WWW address of the package (type string)

%s

Flatsize of the package (type integer)

%a

Automatic status of the package (type integer)

%q

Architecture of the package (type string)

%k

Locking status of the package (type integer)

%M

Message of the package (type string)

%t

Timestamp that the package was installed (type integer)

%i

Additional information about the package (type string)

%#[drCFODLUGBbA]

Number of elements in the list of information (type integer). See **%?** above for what information is used.

Operators

var ~ *glob*

The string value of *var* matches the given glob pattern.

var !~ *glob*

The string value of *var* does not match the given glob pattern.

var >[=] *num*

The numerical value of *var* is greater than [or equal to] the given number.

var <[=] *num*

The numerical value of *var* is less than [or equal to] the given number.

var =[=] [*num* | *string*]

The value of *var* is equal to the given number or string.

var =~ [*num* | *string*]

The value of *var* is equal (case insensitive) to the given number or string.

var != [*num* | *string*]

The value of *var* is not equal to the given number or string.

var !=~ [*num* | *string*]

The value of *var* is not equal case insensitive to the given number or string.

ENVIRONMENT

The following environment variables affect the execution of **pkg query**. See `pkg.conf(5)` for further description.

PKG_DBDIR

CASE_SENSITIVE_MATCH

FILES

See `pkg.conf(5)`.

EXIT STATUS

The **pkg query** utility exits 0 on success, and >0 if an error occurs.

EXAMPLES

List all installed packages by name-version:

```
$ pkg query %n-%v
```

List all dependencies for a package by origin:

```
$ pkg query %do subversion
```

List all dependencies by package name-version:

```
$ pkg query %dn-%dv subversion
```

List all reverse dependencies for a package:

```
$ pkg query %ro perl
```

List all files and their known checksums for a package:

```
$ pkg query '%Fp %Fs' perl
```

List all files for all packages:

```
$ pkg query '%o: %Fp'
```

List all packages with no reverse dependencies:


```
$ pkg query -e '%#r = 0' %o
```

List non-automatic packages:

```
$ pkg query -e '%a = 0' %o
```

List automatic packages:

```
$ pkg query -e '%a = 1' %o
```

List unmaintained packages:

```
$ pkg query -e '%m = ports@FreeBSD.org' %o
```

SEE ALSO

pkg_create(3), pkg_printf(3), pkg_repos(3), pkg-keywords(5), pkg-lua-script(5), pkg-repository(5), pkg-script(5), pkg-triggers(5), pkg.conf(5), pkg(8), pkg-add(8), pkg-alias(8), pkg-annotate(8), pkg-audit(8), pkg-autoremove(8), pkg-check(8), pkg-clean(8), pkg-config(8), pkg-create(8), pkg-delete(8), pkg-fetch(8), pkg-info(8), pkg-install(8), pkg-lock(8), pkg-register(8), pkg-repo(8), pkg-rquery(8), pkg-search(8), pkg-set(8), pkg-shell(8), pkg-shlib(8), pkg-ssh(8), pkg-stats(8), pkg-triggers(8), pkg-update(8), pkg-updating(8), pkg-upgrade(8), pkg-version(8), pkg-which(8)