



Linux Ubuntu 22.4.5 Manual Pages on command 'Lintian::Relation::Version.3'

\$ man Lintian::Relation::Version.3

Lintian::Relation::Version(3) Debian Package Checker Lintian::Relation::Version(3)

NAME

Lintian::Relation::Version - Comparison operators on Debian versions

SYNOPSIS

```
print "yes\n" if versions_equal('1.0', '1.00');  
print "yes\n" if versions_gte('1.1', '1.0');  
print "no\n" if versions_lte('1.1', '1.0');  
print "yes\n" if versions_gt('1.1', '1.0');  
print "no\n" if versions_lt('1.1', '1.1');  
print "yes\n" if versions_compare('1.1', '<=', '1.1');
```

DESCRIPTION

This module provides five functions for comparing version numbers. The underlying implementation uses "libapt-pkg-perl" to ensure that the results match what dpkg will expect.

FUNCTIONS

versions_equal(A, B)

Returns true if A is equal to B ("=") and false otherwise.

`versions_lte(A, B)`

Returns true if A is less than or equal (" $\leq$ ") to B and false otherwise.

`versions_gte(A, B)`

Returns true if A is greater than or equal (" $\geq$ ") to B and false otherwise.

`versions_lt(A, B)`

Returns true if A is less than (" $<$ ") B and false otherwise.

`versions_gt(A, B)`

Returns true if A is greater than (" $>$ ") B and false otherwise.

`versions_compare(A, OP, B)`

Returns true if A OP B, where OP is one of "=", " $\leq$ ", " $\geq$ ", " $<$ ", or " $>$ ", and false otherwise.

`versions_comparator (A, B)`

Returns -1, 0 or 1 if the version A is (respectively) less than, equal to or greater than B. This is useful for (e.g.) sorting a list of versions:

```
foreach my $version (sort versions_comparator @versions) {  
    ...  
}
```

AUTHOR

Originally written by Russ Allbery <rra@debian.org> for Lintian and adapted to use libapt-pkg-perl by Adam D. Barratt <adam@adam-barratt-org.uk>.

SEE ALSO

lintian(1)