

## 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 (<=) to B and false otherwise.

`versions_gte(A, B)`

Returns true if A is greater than or equal (>=) 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 =, <=, >=, <, 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)