

NAME

git-index-pack - Build pack index file for an existing packed archive

SYNOPSIS

```
git index-pack [-v] [-o <index-file>] <pack-file>
git index-pack --stdin [--fix-thin] [--keep] [-v] [-o <index-file>]
[<pack-file>]
```

DESCRIPTION

Reads a packed archive (.pack) from the specified file, and builds a pack index file (.idx) for it. The packed archive together with the pack index can then be placed in the objects/pack/ directory of a Git repository.

OPTIONS

-v

Be verbose about what is going on, including progress status.

-o <index-file>

Write the generated pack index into the specified file. Without this option the name of pack index file is constructed from the name of packed archive file by replacing .pack with .idx (and the program fails if the name of packed archive does not end with .pack).

--stdin

When this flag is provided, the pack is read from stdin instead and a copy is then written to <pack-file>. If <pack-file> is not specified, the pack is written to objects/pack/ directory of the current Git repository with a default name determined from the pack content. If <pack-file> is not specified consider using --keep to prevent a race condition between this process and *git repack*.

--fix-thin

Fix a thin pack produced by git pack-objects --thin (see [git-pack-objects\(1\)](#) for details) by adding the excluded objects the deltified objects are based on to the pack. This option only makes sense in conjunction with --stdin.

--keep

Before moving the index into its final destination create an empty .keep file for the associated pack file. This option is usually necessary with --stdin to prevent a simultaneous *git repack* process from deleting the newly constructed pack and index before refs can be updated to use objects contained in the pack.

--keep=<msg>

Like --keep create a .keep file before moving the index into its final destination, but rather than creating an empty file place <msg> followed by an LF into the .keep file. The <msg> message can later be searched for within all .keep files to locate any which have outlived their usefulness.

--index-version=<version>[,<offset>]

This is intended to be used by the test suite only. It allows to force the version for the generated pack index, and to force 64-bit index entries on objects located above the given offset.

--strict

Die, if the pack contains broken objects or links.

--check-self-contained-and-connected

Die if the pack contains broken links. For internal use only.

--threads=<n>

Specifies the number of threads to spawn when resolving deltas. This requires that index-pack be compiled with pthreads otherwise this option is ignored with a warning. This is meant to reduce packing time on multiprocessor machines. The required amount of memory

for the delta search window is however multiplied by the number of threads. Specifying 0 will cause Git to auto-detect the number of CPU's and use maximum 3 threads.

NOTE

Once the index has been created, the list of object names is sorted and the SHA-1 hash of that list is printed to stdout. If `--stdin` was also used then this is prefixed by either `packt`, or `kept` if a new `.keep` file was successfully created. This is useful to remove a `.keep` file used as a lock to prevent the race with *git repack* mentioned above.

GIT

Part of the [git\(1\)](#) suite