

## NAME

git-multi-pack-index – Write and verify multi-pack-indexes

## SYNOPSIS

*git multi-pack-index* [--object-dir=<dir>] [--[no-]progress] <subcommand>

## DESCRIPTION

Write or verify a multi-pack-index (MIDX) file.

## OPTIONS

--object-dir=<dir>

Use given directory for the location of Git objects. We check <dir>/packs/multi-pack-index for the current MIDX file, and <dir>/packs for the pack-files to index.

--[no-]progress

Turn progress on/off explicitly. If neither is specified, progress is shown if standard error is connected to a terminal.

The following subcommands are available:

write

Write a new MIDX file.

verify

Verify the contents of the MIDX file.

expire

Delete the pack-files that are tracked by the MIDX file, but have no objects referenced by the MIDX. Rewrite the MIDX file afterward to remove all references to these pack-files.

repack

Create a new pack-file containing objects in small pack-files referenced by the multi-pack-index. If the size given by the --batch-size=<size> argument is zero, then create a pack containing all objects referenced by the multi-pack-index. For a non-zero batch size, Select the pack-files by examining packs from oldest-to-newest, computing the "expected size" by counting the number of objects in the pack referenced by the multi-pack-index, then divide by the total number of objects in the pack and multiply by the pack size. We select packs with expected size below the batch size until the set of packs have total expected size at least the batch size. If the total size does not reach the batch size, then do nothing. If a new pack-file is created, rewrite the multi-pack-index to reference the new pack-file. A later run of *git multi-pack-index expire* will delete the pack-files that were part of this batch.

## EXAMPLES

- Write a MIDX file for the packfiles in the current .git folder.

```
$ git multi-pack-index write
```

- Write a MIDX file for the packfiles in an alternate object store.

```
$ git multi-pack-index --object-dir <alt> write
```

- Verify the MIDX file for the packfiles in the current .git folder.

```
$ git multi-pack-index verify
```

## SEE ALSO

See [The Multi-Pack-Index Design Document](#)<sup>[1]</sup> and [The Multi-Pack-Index Format](#)<sup>[2]</sup> for more information on the multi-pack-index feature.

**GIT**

Part of the **git**(1) suite

**NOTES**

1. The Multi-Pack-Index Design Document  
<file:///usr/share/doc/git/html/technical/multi-pack-index.html>
2. The Multi-Pack-Index Format  
<file:///usr/share/doc/git/html/technical/pack-format.html>