

index logan with kminindex

Pipeline

Overview

n accessions.



Span
(log nb kmers
per accession)

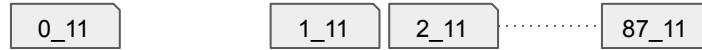
n accessions.



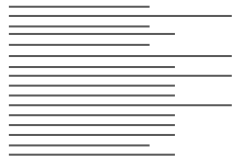
Span
(log nb kmers
per accession)

For each span (one bloom filter size)

1. Create subGroups
2048 accessions per subgroup (except for largest)



n accessions.



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(log nb kmers
per accession)

For each span

one bloom filter size

1. Create subGroups
2048 accessions per group (except for largest)

0_11

1_11

2_11

87_11

2. Computes:
 - * repartition
 - * partitioned BFs



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3. Computes:
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using repartition



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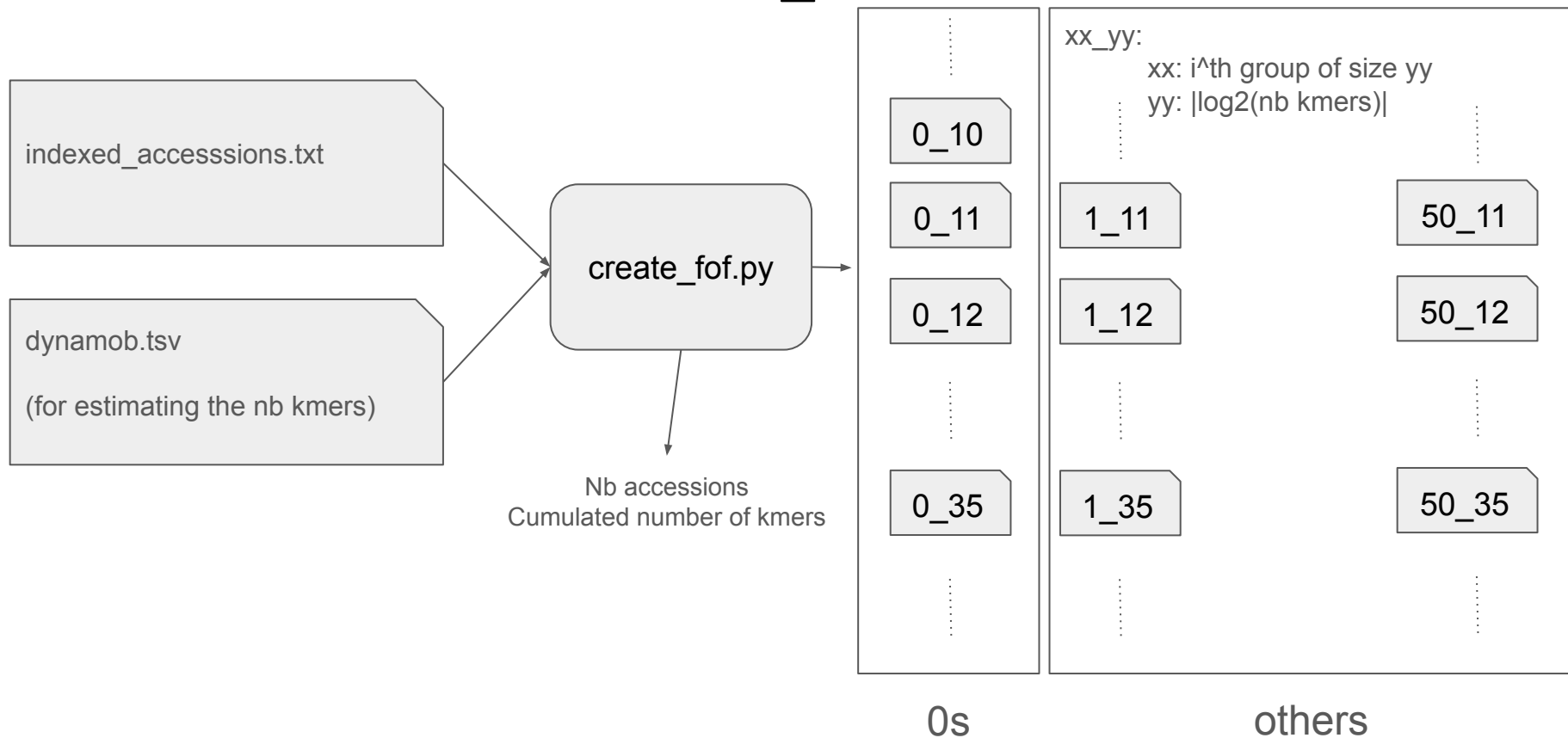
4. Merge



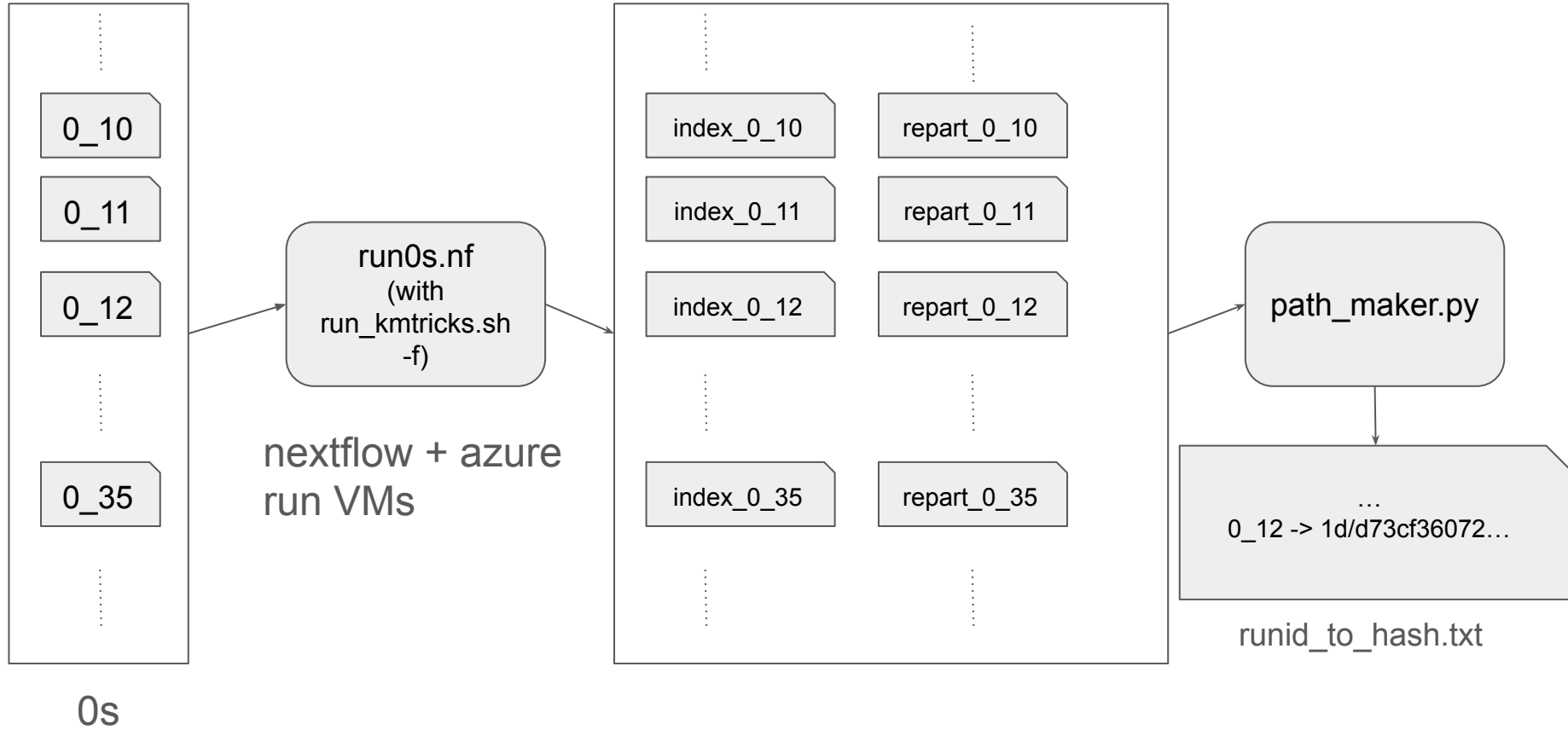
One queryable index
one group x one span

Some details

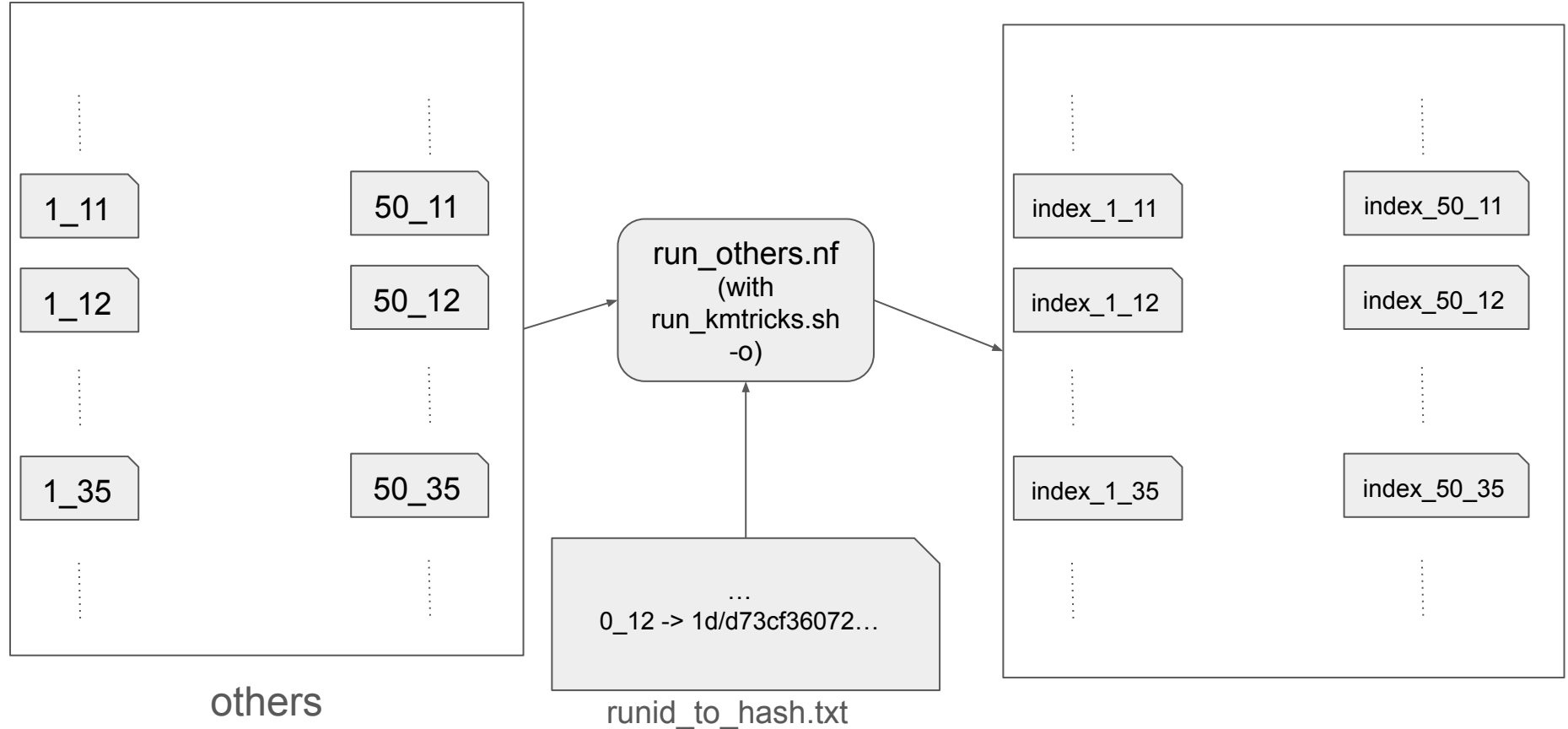
From groups to FOF (`create_fof.py`)



For a group. From Os to sub indexes

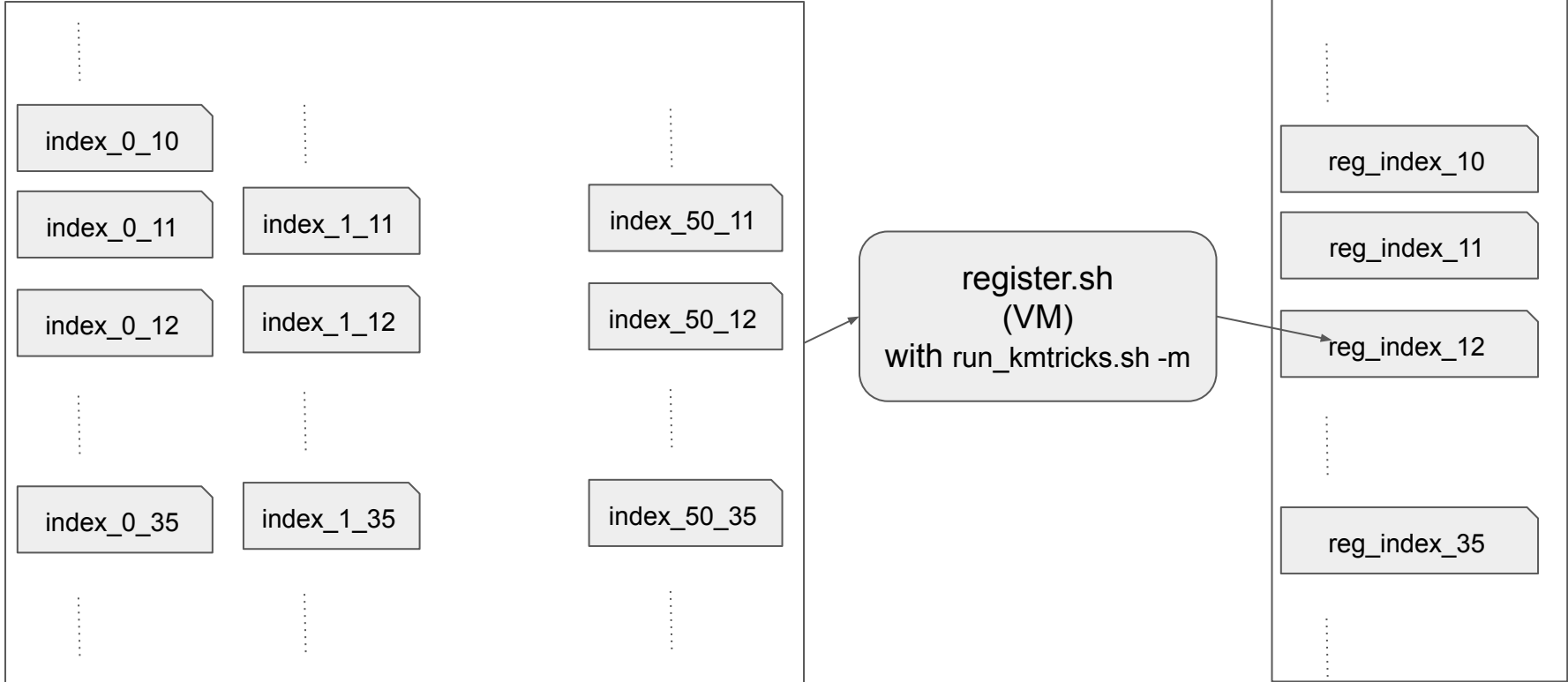


For a group. From others to sub indexes



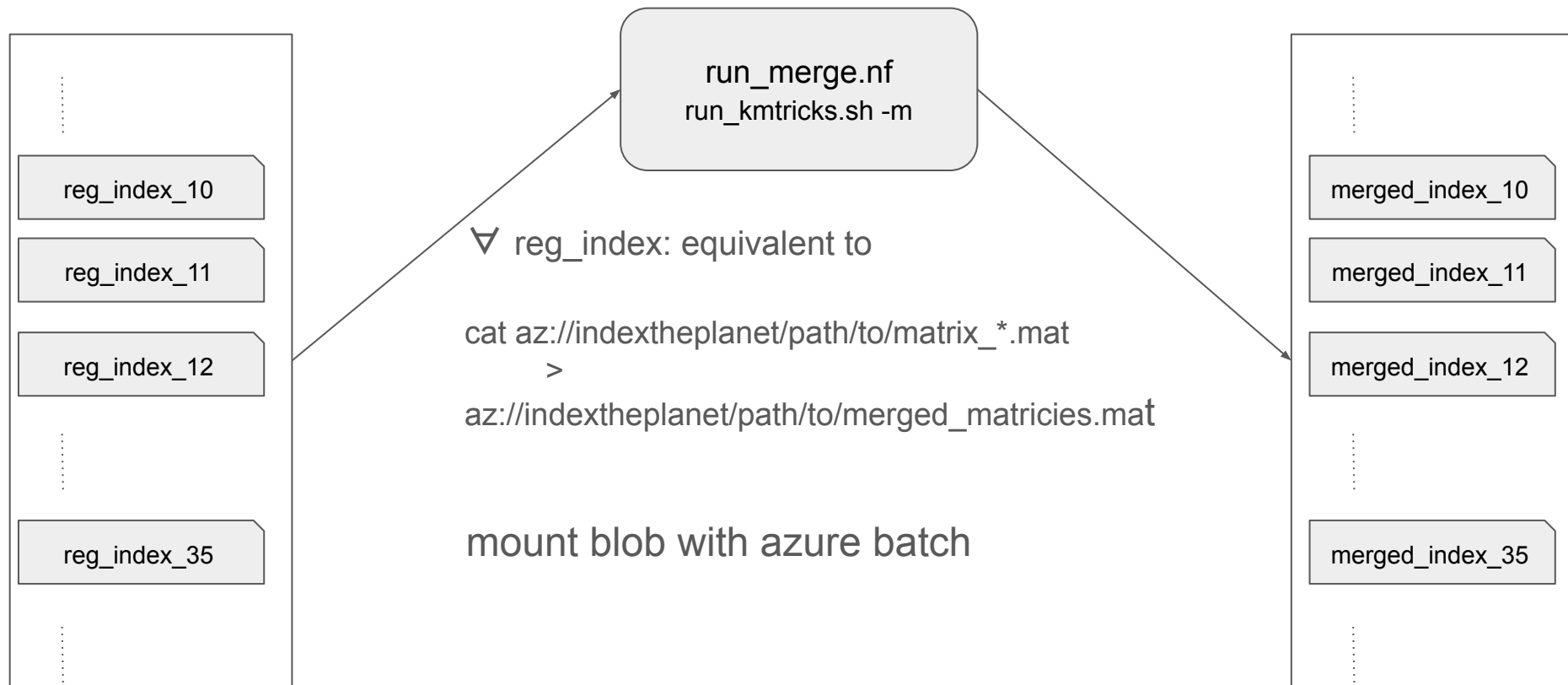
For a group. Register sub indexes per size

index_group (queryable)
directory
symbolic links

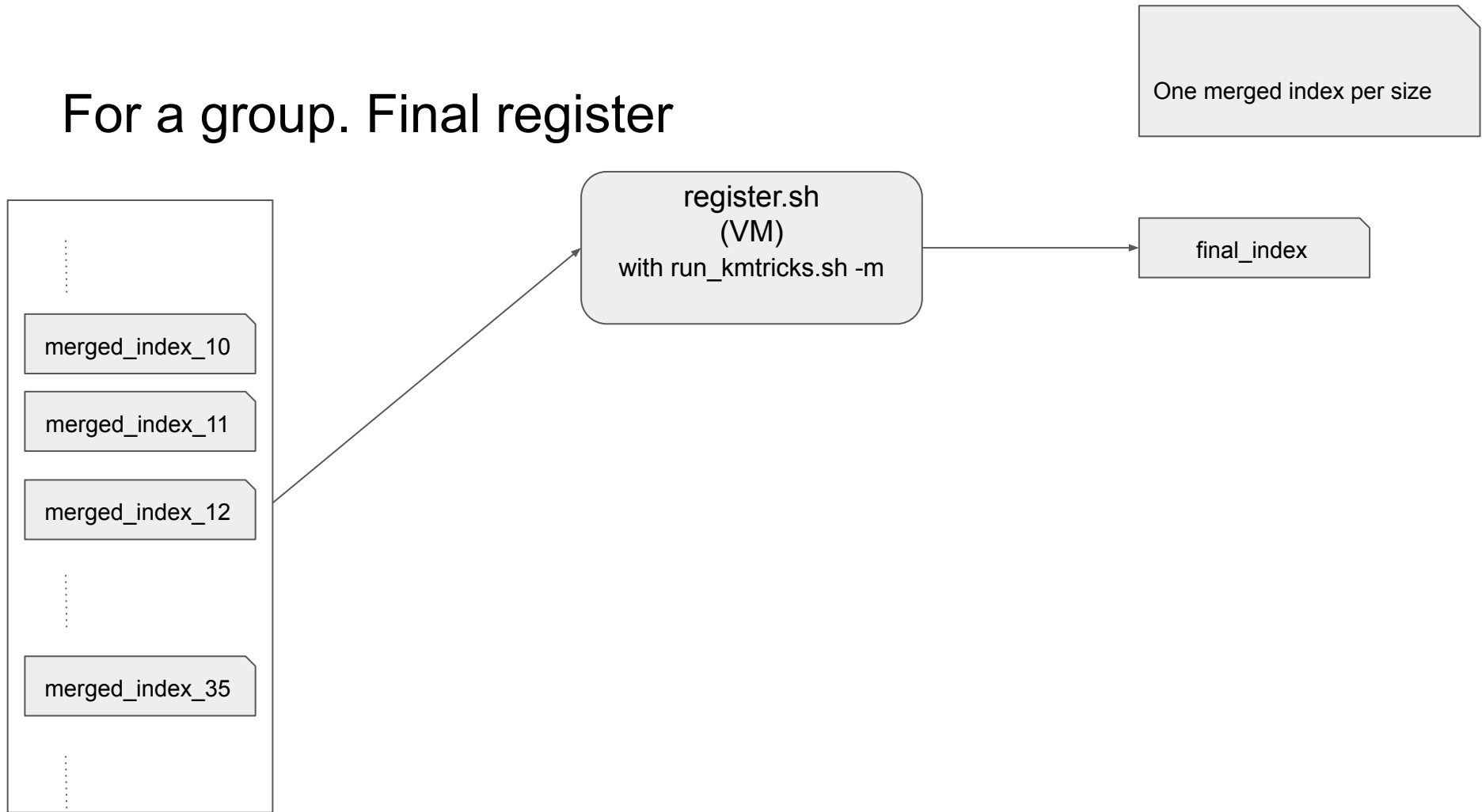


For a group. Merge sub indexes per size

One merged index per size



For a group. Final register



For a group, clean redundant matrices

During the merging

- we do not remove matrices that were merged.
- we test if the merging was correct (`validate_merge.py`)

After merging and validation we clean the old matrices that were merged:

- `launch_clean.sh`