

doris::BaseCompaction
::execute_compact_impl

doris::ColdDataCompaction
::execute_compact_impl

doris::CumulativeCompaction
::execute_compact_impl

do_compaction

```
graph LR; A[doris::BaseCompaction::execute_compact_impl] --> D[do_compaction]; B[doris::ColdDataCompaction::execute_compact_impl] --> D; C[doris::CumulativeCompaction::execute_compact_impl] --> D;
```

The diagram illustrates a common design pattern where three different compaction classes in Doris share a common implementation function. On the left, three white rectangular boxes with black borders represent the classes: `doris::BaseCompaction::execute_compact_impl`, `doris::ColdDataCompaction::execute_compact_impl`, and `doris::CumulativeCompaction::execute_compact_impl`. On the right, a gray rectangular box represents the shared function `do_compaction`. Three blue arrows originate from the right side of each class box and point towards the `do_compaction` box, indicating that each class delegates the execution of `execute_compact_impl` to this common function.