Team Compaction

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발표: 강상우

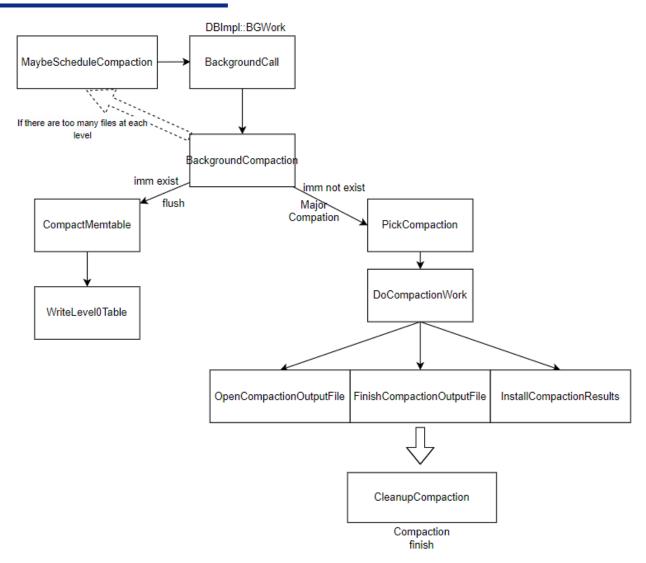
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Contents

- CleanupCompaction()
- DoCompactionWork() Detail
 - How data is put into the sstable?
 - Data code flow

Overall Code Flow:

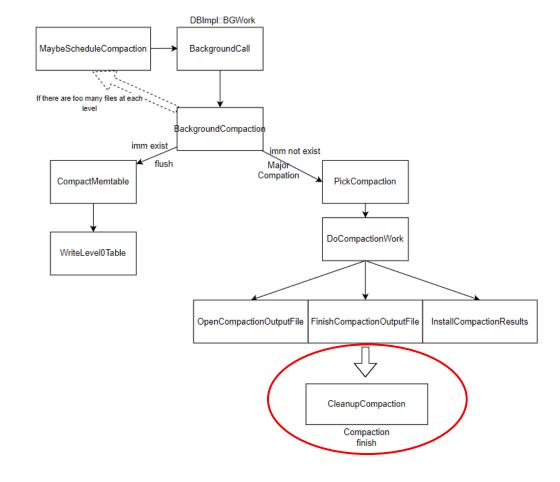




Overall Code Flow: CleanupCompaction()

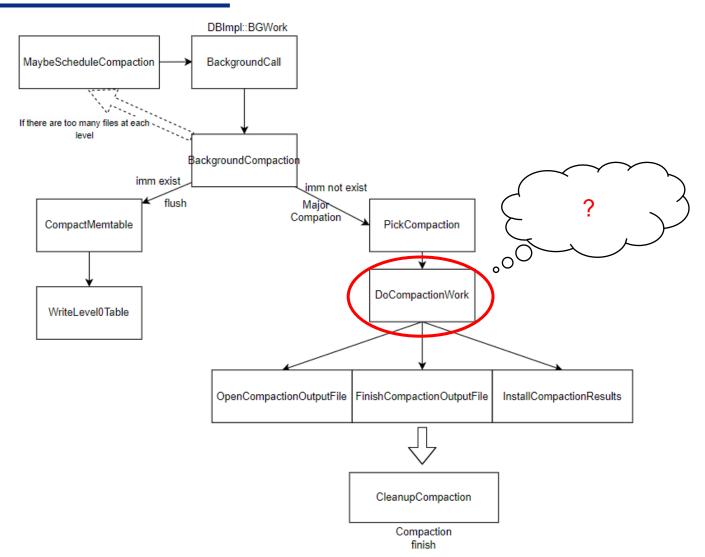
CleanupCompaction

Remove abnormal sstables



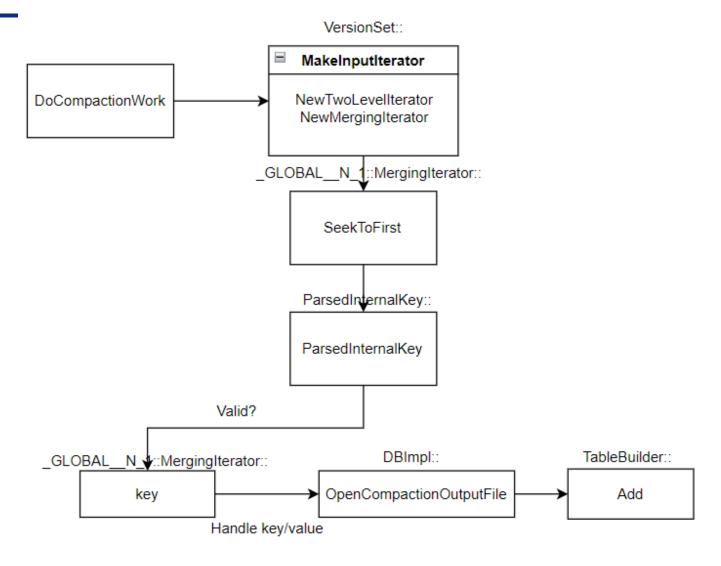


How data is put into the sstable?

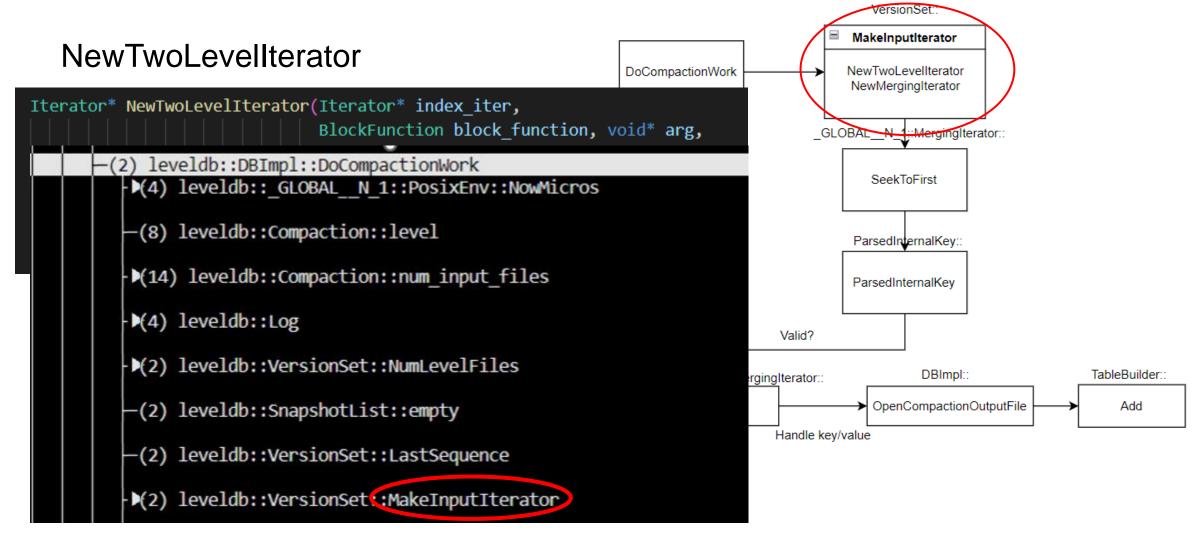




DoCompactionWork() Detail: Data Code Flow



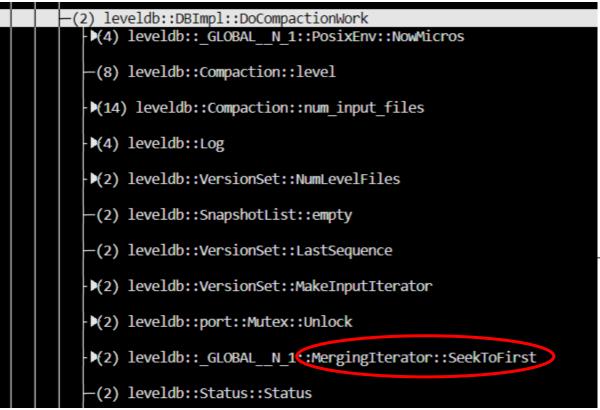
DoCompactionWork() Detail: MakeInputIterator()

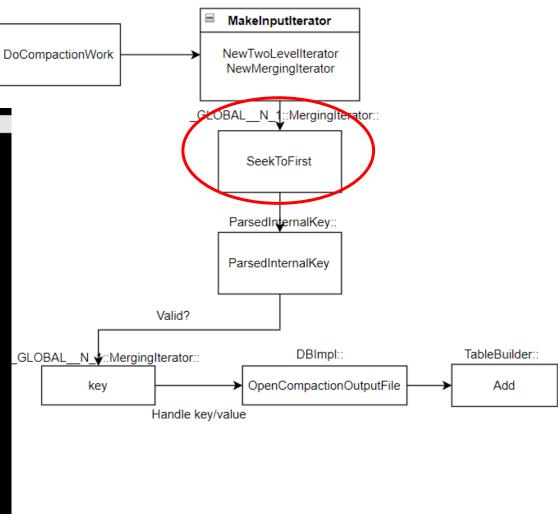


DoCompactionWork() Detail: SeekToFirst()

SeekToFirst

Position at the first key





VersionSet**

DoCompactionWork() Detail: ParsedInternalKey()

ParsedInternalKey

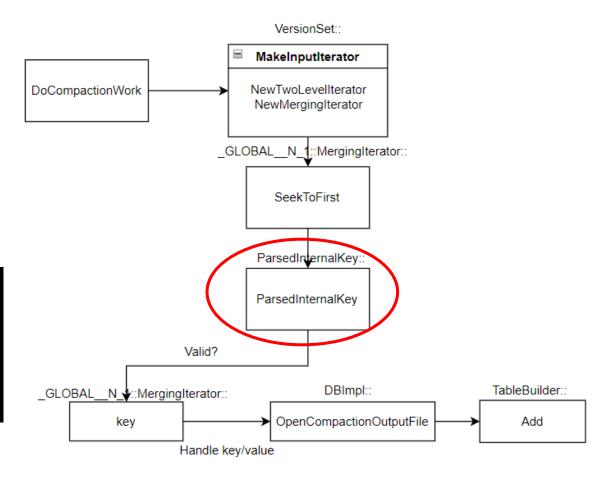
Internalkey parsing

```
- ▶(2) leveldb::_GLOBAL__N_1::MergingIterator::SeekToFirst

-(2) leveldb::Status::Status

- ▶(2) leveldb::ParsedInternalKey::ParsedInternalKey

-(2) std::_cxx11::basic_string::basic_string
```

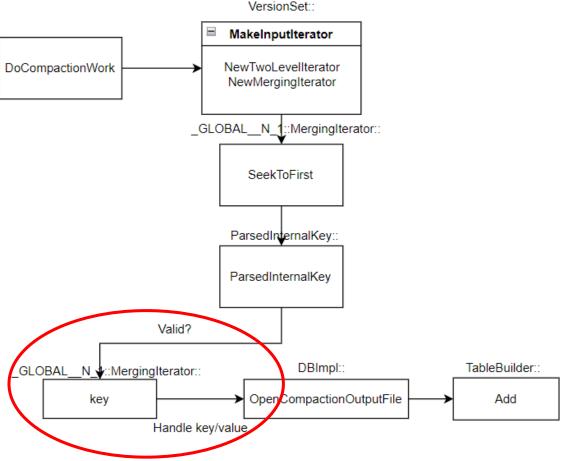




DoCompactionWork() Detail: MergingIterator::key()

MergingIterator::key()

```
// Handle key/value, add to state, etc.
bool drop = false;
if (!ParseInternalKey(key, &ikey)) {
 current user key.clear();
 has current user key = false;
 last sequence for key = kMaxSequenceNumber;
 else {
 if (!has current user key ||
     user comparator()->Compare(ikey.user key, Slice(current user key))
         0)
   // First occurrence of this user key
   current user key.assign(ikey.user key.data(), ikey.user key.size());
   has current user key = true;
   last sequence for key = kMaxSequenceNumber;
 if (last sequence for key /- commact_semallast enanchot) !
 ▶(302572) std::atomic::load
 ▶(151285) leveldb:: GLOBAL N 1 (MergingIterator::key)
```

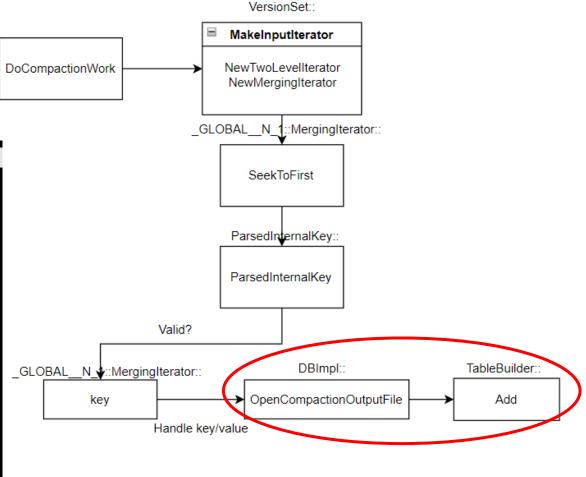


DoCompactionWork() Detail: Add key/value to sstable

OpenCompactionOutputFile

Create new sstable





Thank you



