Design	chal	lenge:

To ensure artifacts and their cache reservation are released properly in various cases introduced by corruption detection.

- Especially for:

 (1) hash entries info since mistakenly accumulated hash entries can lead to slow speed of FilterBitsBuilder::Finish(), high memory peak and filter capturing previous keys;
 (2) partitioned filter due to "multiple-Finish-before-multiple-PostVerify" pattern

Summary of artifact's release point under each case									
FullFilter	Hash Entries	Hash Entries Cache Rev	Checksum	Final Filter	Final Filter Cache Rev	Banding	Banding Cache Rev		
No Corruption	PostVerify after BlockChecksum	PostVerify after BlockChecksum	PostVerify after BlockChecksum	Fall out of scope of the filter-writing loop	ResetFilterBitsBuilder after the filter-writing loop	FilterBitsBuilder::Finish	FilterBitsBuilder::Finish		
Corruption 1: Hash entries	MaybeVerifyHashEntries Checksum	MaybeVerifyHashEntries Checksum	MaybeVerifyHashEntries Checksum	Bloom: Fall out of scope of FilterBitsBuilder:: Finish and empty filter Ribbon: Haven't been created yet	Bloom: Fall out of scope of FilterBitsBuilder:: Finish and no cache rev Ribbon: Haven't been created yet	Fall out of scope of FilterBitsBuilder::Finish earlier	Fall out of scope of FilterBitsBuilder::Finish earlier		
Corruption 2: Filter content	PostVerify after BlockChecksum	PostVerify after BlockChecksum	PostVerify after BlockChecksum	Fall out of scope of the filter-writing loop ealier	ResetFilterBitsBuilder after the filter-writing loop earlier	FilterBitsBuilder::Finish	FilterBitsBuilder::Finish		
Extra cases between corruption 1 and 2: No corruption 1 but can't get to check for corruption 2 due to some early return of the code (e.g., early return before PostVerify in WriteRawBlock)	ResetFilterBitsBuilder	ResetFilterBitsBuilder	ResetFilterBitsBuilder	Fall out of scope of the filter-writing loop ealier	ResetFilterBitsBuilder after the filter-writing loop earlier	FilterBitsBuilder::Finish	FilterBitsBuilder::Finish		
Domisista no dElle : :	Partitioned Hash	Partitioned Hash			Partitioned Final Filter		Partitioned Banding		
ParititionedFilter	Entries	Entries Cache Rev	Partitioned Checksum	Partitioned Final Filter	Cache Rev	Partitioned Banding	Cache Rev		
No Corruption			Partitioned Checksum PostVerify in PartitionFilterBlock:: Finish	Partitioned Final Filter Fall out of scope of the filter-writing loop		Partitioned Banding FilterBitsBuilder::Finish			
	PostVerify in PartitionFilterBlock::	PostVerify in PartitionFilterBlock::	PostVerify in PartitionFilterBlock::	Fall out of scope of the	Cache Rev ResetFilterBitsBuilder	•	Cache Rev		
No Corruption Corruption 1:	Entries PostVerify in PartitionFilterBlock:: Finish MaybeVerifyHashEntries	PostVerify in PartitionFilterBlock:: Finish MaybeVerifyHashEntries	PostVerify in PartitionFilterBlock:: Finish MaybeVerifyHashEntries	Fall out of scope of the filter-writing loop Bloom: Fall out of scope of FilterBitsBuilder:: Finish and empty filter Ribbon: Haven't been	Cache Rev ResetFilterBitsBuilder after the filter-writing loop Bloom: Fall out of scope of FilterBitsBuilder:: Finish and no cache rev Ribbon: Haven't been	FilterBitsBuilder::Finish Fall out of scope of FilterBitsBuilder::Finish	Fall out of scope of FilterBitsBuilder::Finish		