Item 189
git_comments:

1. TODO: this error handling can be removed in future, once we find a common way to handle OOM errors in netty threads. Here we enrich it to propagate better OOM message to the receiver if it happens in a netty thread.
2. noinspection ErrorNotRethrown
3. * * Checks whether the given exception indicates a JVM direct out-of-memory error. * * @param t The exception to check. * @return True, if the exception is the direct {@link OutOfMemoryError}, false otherwise.

git_commits:

1. **summary:** [FLINK-15989] Improve direct out-of-memory error handling in MemorySegmentFactory
   message: [FLINK-15989] Improve direct out-of-memory error handling in MemorySegmentFactory

github_issues:

github_issues_comments:

github_pulls:

github_pulls_comments:

github_pulls_reviews:

jira_issues:

1. **summary:** Rewrap OutOfMemoryError in allocateUnpooledOffHeap with better message
   description: Now if Flink allocates direct memory
   in MemorySegmentFactory#allocateUnpooledOffHeapMemory and its limit is exceeded for any reason, e.g. user code over-allocated direct memory, ByteBuffer#allocateDirect will throw a generic "OutOfMemoryError: Direct buffer memory". We can catch it and add a message which provides more explanation and points to an option taskmanager.memory.task.off-heap.size to increase as a possible solution.

jira_issues_comments:

1. **body:** Thanks [~azagrebin], yes, we can improve this message too.
   label: code-design
2. merged into master by a7521844d7a120b2e36dd7d57cea0fe5d819dbba merged into 1.10 by 25ec89b8dae175246fd28972f8dbf7d479e89b5f