TAJO-127

hjkim

2013-08-12

Contents

Chapter 1

Root issue TAJO-127

1.1 Summary

Implement Tajo Resource Manager

1.2 Description

Implement our own resource manager and worker containers for the standby mode without YARN.

- 1. QueryWorker stated when cluster startup.
- 2. TajoClient requests query to TajoMaster.
- ${\it 3. }\ {\it TajoResourceManager assigns role\ QueryMaster\ to\ a\ QueryWorker}.$
- 4. TajoResourceManager assigns QueryWorkers for execution query.
- 5. TajoMaster requests query to QueryMaster.
- 6. TajoClient checks QueryStatus to TajoMaster.
- 7. TajoMaster reports QueryMasterâÅŹs host, port to TajoClient.
- 8. QueryMaster assigns QueryUnit to QeuryWorker.
- 9. TajoClient fetches result data from QueryMaster.

1.3 Attachments

1. TAJO-127.patch

1.4 Commits

- 1. Commit **c027cd2** by **Hyunsik Choi** (2013-08-26): TAJO-127: Implement Tajo Resource Manager. (Fixed some missing changes)
- 2. Commit **d48f266** by **Hyunsik Choi** (2013-08-26): TAJO-127: Implement Tajo Resource Manager. (hyoungjunkim via hyunsik)

1.5 Comments

- 1. hjkim: This patch also includes for TAJO-120
- 2. hyunsik: +1

It's really great work. It significantly reduces the delay of resource allocation and container launch. It shortens also a large amount time for unit tests. After this, the integration test on a number of frontend tests takes only three minutes; it took 10 minutes when it was only based on yarn.

I really appreciate your contribution. I've committed it, and I've resolved it as as resolved.

Besides, this work needs an additional documentation on starting a Tajo cluster. I'll create a separate jira issue for that. Thanks!

3. hudson: FAILURE: Integrated in Tajo-trunk-postcommit #361 (See [https://builds.apache.org/job/Tajotrunk-postcommit/361/])

TAJO-127: Implement Tajo Resource Manager. (hyoungjunkim via hyunsik) (hyunsik:

- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/YarnTaskRunnerLauncherImpl.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/TaskFatalErrorEvent.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/worker/TestRangeRetrieverHandler.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/LocalTajoTestingUtility.java
- * tajo-core/tajo-core-backend/src/main/proto/ClientProtocol.proto
- $*\ tajo-catalog/tajo-catalog-server/src/main/java/org/apache/tajo/catalog/CatalogServer.java$
- * tajo-rpc/src/main/java/org/apache/tajo/rpc/ProtoAsyncRpcServer.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TajoMaster.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryMasterTask.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/MiniTajoYarnCluster.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/RMContainerAllocator.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/engine/planner/global/TestGlobalQueryOptimizer.ja
- * tajo-common/src/main/java/org/apache/tajo/util/TUtil.java
- $*\ tajo-core/tajo-core-pullserver/src/main/java/org/apache/tajo/pullserver/HttpDataServerHandler.java/src/main/java/org/apache/tajo/pullserver/HttpDataServerHandler.java/src/main/java/org/apache/tajo/pullserver/HttpDataServerHandler.java/src/main/java/$
- * tajo-common/src/main/java/org/apache/tajo/QueryIdFactory.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/master/TestRepartitioner.java
- *~tajo-core/tajo-core-storage/src/main/java/org/apache/tajo/storage/CSVFile.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/worker/dataserver/TestHttpDataServer.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/SubQuery.java
- * tajo-core/tajo-core-backend/src/main/proto/QueryMasterClientProtocol.proto
- * tajo-common/src/main/java/org/apache/tajo/ExecutionBlockId.java
- * tajo-rpc/src/main/java/org/apache/tajo/rpc/ProtoAsyncRpcClient.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/TaskRunnerManager.java
- * tajo-common/src/test/java/org/apache/tajo/datum/TestBitDatum.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/ExecutionBlock.java
- * tajo-common/src/main/java/org/apache/tajo/QueryUnitId.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryMasterManagerService.
- * tajo-core/tajo-core-pullserver/src/main/java/org/apache/tajo/pullserver/TajoPullServerService.java
- * tajo-dist/src/main/bin/start-tajo.sh
- * tajo-core/tajo-core-pullserver/src/main/java/org/apache/tajo/pullserver/retriever/AdvancedDataRetriever.java
- * tajo-dist/src/main/bin/tajo-daemons.sh
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryInfo.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/TajoWorker.java
- * tajo-core/tajo-core-backend/src/main/proto/ClientProtos.proto
- * tajo-dist/src/main/bin/tajo-daemon.sh
- * tajo-core/tajo-core-pullserver/pom.xml
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TajoMasterService.java
- * tajo-core/tajo-core-backend/src/test/resources/tajo-default.xml
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/WorkerResourceManager.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/TajoTestingCluster.java

- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryMaster.java
- * tajo-rpc/src/main/java/org/apache/tajo/rpc/ProtoBlockingRpcClient.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/TpchTestBase.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/TaskRequestEvent.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/util/ApplicationIdUtils.java
- $*\ tajo-core/tajo-core-backend/src/main/proto/QueryMasterProtocol.proto$
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/GlobalPlanner.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/engine/query/ResultSetImpl.java
- * tajo-core/tajo-core-pullserver/src/main/java/org/apache/tajo/pullserver/PullServerAuxService.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/ipc/protocolrecords/QueryUnitRequest.java
- * tajo-core/tajo-core-backend/src/main/proto/TajoMasterClientProtocol.proto
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryMasterClientService.java/org/apache/tajo/master/querymaster/QueryMasterClientService.java/org/apache/tajo/master/querymaster/QueryMasterClientService.java/org/apache/tajo/master/querymaster/QueryMasterClientService.java/org/apache/tajo/master/querymaster/QueryMasterClientService.java/org/apache/tajo/master/querymaster/QueryMasterClientService.java/org/apache/tajo/master/querymaster/QueryMasterClientService.java/org/apache/tajo/master/querymaster/QueryMasterClientService.java/org/apache/tajo/master/querymaster/quer$
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/Task.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/ResourceAllocator.java
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/SubQuerySucceeEvent.java$
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/TajoResourceAllocator.java
- * tajo-dist/src/main/bin/stop-tajo.sh
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/TajoWorkerManagerService.java
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent.java/org/apache/tajo/master/event/QuerySubQueryEvent/QueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/QuerySubQueryEvent/Q$
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent.java/org/apache/tajo/master/event/TaskAttemptStatusUpdateEvent/TaskAttemptStatusUpd$
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/Repartitioner.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TajoAsyncDispatcher.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/SubQueryContainerAllocationEvent.
- * tajo-core/tajo-core-backend/src/main/proto/TajoWorkerProtocol.proto
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/ContainerProxy.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/GlobalEngine.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/TaskSchedulerEvent.java
- * tajo-core/tajo-core-backend/pom.xml
- * tajo-rpc/src/main/java/org/apache/tajo/rpc/NettyServerBase.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/SubQueryTaskEvent.java
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/TajoWorkerClientService.java/org/apache/tajo/worker/TajoWorkerClientService.java/org/apache/tajo/worker/TajoWorkerClientService.java/org/apache/tajo/worker/TajoWorkerClientService.java/org/apache/tajo/worker/TajoWorkerClientService.java/org/apache/tajo/worker/TajoWorkerClientService.java/org/apache/tajo/worker/TajoWorkerClientService.java/org/apache/tajo/worker/TajoWorkerClientService.java/org/apache/tajo/workerClientService.java/org/apache/tajo/org/apache/tajo/workerClientService.java/org/apach$
- * tajo-rpc/src/main/java/org/apache/tajo/util/NetUtils.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TaskRunnerGroupEvent.java
- * tajo-common/src/main/proto/TajoIdProtos.proto
- * tajo-core/tajo-core-backend/src/main/resources/tajo-default.xml
- * tajo-dist/src/main/conf/tajo-env.sh
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/engine/planner/physical/TestPhysicalPlanner.java
- *~tajo-core/tajo-core-storage/src/main/java/org/apache/tajo/storage/MergeScanner.java
- * tajo-core/tajo-core-backend/src/main/resources/log4j.properties
- *~tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/TaskRunner.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/dataserver/retriever/AdvancedDataRetriever/
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryJobEvent.java
- * tajo-common/src/main/java/org/apache/tajo/conf/TajoConf.java
- * tajo-core/tajo-core-backend/src/main/proto/TajoIdProtos.proto
- * tajo-core/tajo-core-backend/src/test/java/log4j.properties
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent.java/org/apache/tajo/master/event/GrouppedContainerAllocatorEvent/GrouppedContainerAllocator$
- * tajo-core/tajo-core-backend/src/main/java/log4j.properties
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/webapp/StaticHttpServer.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/TaskCompletionEvent.java
- * tajo-common/src/main/java/org/apache/tajo/util/TajoIdUtils.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryUnit.java/org/apache/tajo/master/querymaster/QueryUnit.java/org/apache/tajo/master/querymaster/QueryUnit.java/org/apache/tajo/master/querymaster/QueryUnit.java/org/apache/tajo/master/querymaster/QueryUnit.java/org/apache/tajo/master/querymaster/QueryUnit.java/org/apache/tajo/master/querymaster/QueryUnit.java/org/apache/tajo/master/queryma
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryInProgress.java$
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/YarnRMContainerAllocator.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TaskSchedulerImpl.java

- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryJobManager.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryMasterRunner.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/YarnContainerProxy.java
- * tajo-dist/src/main/conf/workers
- * tajo-core/tajo-core-backend/src/main/proto/QueryMasterManagerProtocol.proto
- * tajo-common/src/main/java/org/apache/tajo/QueryId.java
- * tajo-dist/src/main/bin/tajo-config.sh
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/QueryStartEvent.java
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/YarnTajoResourceManager.java$
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/client/TajoClient.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/SubQueryEvent.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/TestTajoIds.java
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master/TaskRunnerLauncherImpl.java/org/apache/tajo/master$
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/TajoWorkerContainerId.java/org/apache/tajo/master/rm/tajo/mas$
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryMasterManager.java$
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/cli/TajoCli.java
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/rm/TajoWorkerContainer.java/org/apache/tajo/master/apache/t$
- * tajo-core/tajo-core-backend/src/main/proto/TajoMasterProtocol.proto
- $*\ tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/TaskRunnerTest.java/org/apache/tajo/worker/task-tajo/worker/tajo/$
- $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TajoMasterClientService.java$
- * tajo-common/src/main/java/org/apache/tajo/SubQueryId.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TajoContainerProxy.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/AbstractResourceAllocator.java
- * pom.xml
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/ContainerAllocationEvent.java
- * tajo-common/src/main/java/org/apache/tajo/QueryUnitAttemptId.java
- * tajo-dist/src/main/bin/tajo
- $*\ tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/engine/plan/global/TestGlobalQueryPlanner.java$
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/Query.java
- * CHANGES.txt
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/TaskScheduleEvent.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/event/SubQueryCompletedEvent.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/TajoWorkerResourceManager.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/engine/query/QueryUnitRequestImpl.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/WorkerResource.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/worker/YarnResourceAllocator.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/rm/WorkerStatus.java
- * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/querymaster/QueryUnitAttempt.java
- * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/TestQueryIdFactory.java
- 4. hudson: SUCCESS: Integrated in Tajo-trunk-postcommit #362 (See [https://builds.apache.org/job/Tajo-trunk-postcommit/362/])
 - TAJO-127: Implement Tajo Resource Manager. (Fixed some missing changes) (hyunsik:

 - * tajo-core/tajo-core-backend/src/test/java/org/apache/tajo/TajoTestingCluster.java
 - $*\ tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TajoMasterClientService.java$
 - * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/master/TajoMasterService.java
 - * tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/client/TajoClient.java

1.6 Pull requests

No pull requests

Chapter 2

Connected issue TAJO-120

2.1 Summary

TestCase doesn't call ResultSet.close

2.2 Description

Current implementation is

Changed implementation is

2.3 Attachments

No attachments

2.4 Commits

No related commits

2.5 Comments

1. hyunsik: This was resolved by TAJO-127.

2.6 Pull requests

No pull requests