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## Contents

### **1.1 Activation 1.1 1.0.1**

1.1.1 Available under license

### **1.2 ActiveIO :: Core 3.1.2**

1.2.1 Available under license

### **1.3 ActiveMQ :: Core 5.5.0**

1.3.1 Available under license

### **1.4 ActiveMQ :: Core 5.6.0**

1.4.1 Available under license

### **1.5 ActiveMQ :: KahaDB 5.5.0**

1.5.1 Available under license

### **1.6 ActiveMQ Protocol Buffers Implementation and Compiler 1.1**

1.6.1 Available under license

### **1.7 activemq-client 5.10.0**

1.7.1 Available under license

### **1.8 activemq-client 5.9.0**

1.8.1 Available under license

### **1.9 activemq-client 5.14.3**

1.9.1 Available under license

### **1.10 activemq-core 5.1.0**

1.10.1 Available under license

### **1.11 akka-actor\_2.11 2.3.12**

1.11.1 Available under license

### **1.12 akka-http-core-experimental\_2.11 2.0-M1**

1.12.1 Available under license

### **1.13 akka-http-experimental\_2.11 2.0-M1**

1.13.1 Available under license

- 1.14 akka-http-spray-json-experimental\_2.11 2.0-M1**
  - 1.14.1 Available under license
- 1.15 akka-parsing-experimental\_2.11 2.0-M1**
  - 1.15.1 Available under license
- 1.16 akka-stream-experimental\_2.11 2.0-M1**
  - 1.16.1 Available under license
- 1.17 android-json 0.0.20131108.vaadin1**
  - 1.17.1 Available under license
- 1.18 andromda-script-wrappers 3.3**
  - 1.18.1 Available under license
- 1.19 annogen 0.1.0**
  - 1.19.1 Available under license
- 1.20 ant 1.8.1**
  - 1.20.1 Available under license
- 1.21 ant-launcher 1.8.1**
  - 1.21.1 Available under license
- 1.22 ant-launcher 1.7.0**
  - 1.22.1 Available under license
- 1.23 ant/junit\_3.8.2 1.8.1**
  - 1.23.1 Available under license
- 1.24 ANTLR 2.7.6**
  - 1.24.1 Available under license
- 1.25 ANTLR 2.7.6**
  - 1.25.1 Available under license
- 1.26 AntLR Parser Generator 2.7.7**
  - 1.26.1 Available under license
- 1.27 aopalliance version 1.0 repackaged as a module 2.4.0-b10**
  - 1.27.1 Available under license
- 1.28 aopalliance-repackaged 2.5.0-b32**
  - 1.28.1 Available under license
- 1.29 Apache Axis2 - Code Generation 1.4**
  - 1.29.1 Available under license
- 1.30 Apache Axis2 - Root 1.4**
  - 1.30.1 Available under license
- 1.31 Apache Commons BeanUtils 1.9.2**
  - 1.31.1 Available under license
- 1.32 Apache Commons Codec 1.10**
  - 1.32.1 Available under license
- 1.33 Apache Commons Codec 1.5**

- 1.33.1 Available under license
- 1.34 Apache Commons Codec 1.9**
  - 1.34.1 Available under license
- 1.35 Apache Commons Collections 4.0**
  - 1.35.1 Available under license
- 1.36 Apache Commons Compress 1.9**
  - 1.36.1 Available under license
- 1.37 Apache Commons DBCP 2.0.1**
  - 1.37.1 Available under license
- 1.38 Apache Commons Lang 3.4**
  - 1.38.1 Available under license
- 1.39 Apache Commons Lang 3.3.2**
  - 1.39.1 Available under license
- 1.40 Apache Commons Logging 1.2**
  - 1.40.1 Available under license
- 1.41 Apache Commons Pool 2.2**
  - 1.41.1 Available under license
- 1.42 Apache Commons: Logging 1.0.3**
  - 1.42.1 Notifications
  - 1.42.2 Available under license
- 1.43 Apache Geronimo Specs 11.0**
  - 1.43.1 Available under license
- 1.44 Apache Geronimo Specs 11.0**
  - 1.44.1 Available under license
- 1.45 Apache Hadoop Annotations 2.2.0**
  - 1.45.1 Available under license
- 1.46 Apache Hadoop Auth 2.2.0**
  - 1.46.1 Available under license
- 1.47 Apache Hadoop Common 2.2.0**
  - 1.47.1 Available under license
- 1.48 Apache Hadoop HDFS 2.2.0**
  - 1.48.1 Available under license
- 1.49 Apache HttpClient 4.3.6**
  - 1.49.1 Available under license
- 1.50 Apache HttpClient Mime 4.3.6**
  - 1.50.1 Available under license
- 1.51 Apache HttpCore 4.4**
  - 1.51.1 Available under license
- 1.52 Apache HttpCore 4.3.3**

- 1.52.1 Available under license
- 1.53 Apache Log4j 1.2.17**
  - 1.53.1 Available under license
- 1.54 Apache POI 3.9**
  - 1.54.1 Available under license
- 1.55 Apache Velocity 1.7**
  - 1.55.1 Available under license
- 1.56 Apache XBean :: Spring 3.7**
  - 1.56.1 Available under license
- 1.57 apache-log4j 1.2.15**
  - 1.57.1 Available under license
- 1.58 apache-log4j 1.2.15**
  - 1.58.1 Available under license
- 1.59 ASM 1.5.3**
  - 1.59.1 Available under license
- 1.60 ASM Core 3.1**
  - 1.60.1 Available under license
- 1.61 ASM Core 5.0.3**
- 1.62 ASM library repackaged as OSGi bundle 2.4.0-b10**
  - 1.62.1 Available under license
- 1.63 asm-all-repackaged 2.5.0-b32**
  - 1.63.1 Available under license
- 1.64 asm-analysis 5.0.3**
  - 1.64.1 Available under license
- 1.65 asm-attrs 1.5.3**
  - 1.65.1 Available under license
- 1.66 asm-commons 5.0.3**
  - 1.66.1 Available under license
- 1.67 asm-tree 5.0.3**
  - 1.67.1 Available under license
- 1.68 asm-util 5.0.3**
- 1.69 AspectJ runtime 1.6.1**
  - 1.69.1 Available under license
- 1.70 AspectJ runtime 1.6.8**
  - 1.70.1 Available under license
- 1.71 AspectJ weaver 1.8.6**
  - 1.71.1 Available under license
- 1.72 AspectJ weaver 1.6.8**
  - 1.72.1 Available under license

### **1.73 AspectJ weaver 1.8.5**

1.73.1 Available under license

### **1.74 AspectJ Weaver 1.5.4**

1.74.1 Available under license

### **1.75 AspectJ weaver\_Apache 1.6.8**

1.75.1 Notifications

1.75.2 Available under license

### **1.76 aspectjrt 1.8.2**

1.76.1 Available under license

### **1.77 aspectjweaver 1.8.9**

1.77.1 Available under license

### **1.78 Atomikos Util 3.7.0**

1.78.1 Available under license

### **1.79 attoparser 2.0.2.RELEASE**

1.79.1 Available under license

### **1.80 avro 1.7.4**

1.80.1 Available under license

### **1.81 Axiom API 1.2.7**

1.81.1 Available under license

### **1.82 Axiom API 1.2.5**

1.82.1 Available under license

### **1.83 Axiom DOM 1.2.7**

1.83.1 Available under license

### **1.84 Axiom Impl 1.2.5**

### **1.85 Axiom Impl 1.2.7**

1.85.1 Available under license

### **1.86 axiom-api 1.2.5**

1.86.1 Available under license

### **1.87 axiom-dom 1.2.5**

### **1.88 axiom-dom 1.2.5**

1.88.1 Available under license

### **1.89 axiom-impl 1.2.5**

1.89.1 Available under license

### **1.90 axis 1.4**

1.90.1 Available under license

### **1.91 axis2-adb 1.3**

1.91.1 Available under license

### **1.92 axis2-adb 1.4**

1.92.1 Available under license

- 1.93 axis2-codegen 1.3**
  - 1.93.1 Available under license
- 1.94 axis2-json 1.3**
  - 1.94.1 Available under license
- 1.95 axis2-json 1.4**
  - 1.95.1 Available under license
- 1.96 axis2-kernel 1.3**
  - 1.96.1 Available under license
- 1.97 axis2-kernel 1.4**
  - 1.97.1 Available under license
- 1.98 Backport of JSR 166 2.2**
  - 1.98.1 Available under license
- 1.99 Batik CSS 1.6-1**
  - 1.99.1 Available under license
- 1.100 Batik CSS engine 1.7**
- 1.101 Batik Ext 1.6-1**
  - 1.101.1 Available under license
- 1.102 Batik external code 1.7**
- 1.103 Batik GUI Utilities 1.6-1**
  - 1.103.1 Available under license
- 1.104 Batik Utilities 1.6-1**
  - 1.104.1 Available under license
- 1.105 Batik utility library 1.7**
- 1.106 Bean Validation API 1.0.0.GA**
  - 1.106.1 Available under license
- 1.107 Bean Validation API 1.1.0.Final**
  - 1.107.1 Available under license
- 1.108 Beanshell 2.0b4**
  - 1.108.1 Available under license
- 1.109 BeanShell core 2.0b4**
  - 1.109.1 Available under license
- 1.110 Bouncy Castle CMS and S/MIME API 1.38**
- 1.111 Bouncy Castle OpenPGP API 1.38**
  - 1.111.1 Available under license
- 1.112 Bouncy Castle Provider 1.38**
  - 1.112.1 Available under license
- 1.113 bsh 2.0b6**
  - 1.113.1 Available under license
- 1.114 c3p0:JDBC DataSources/Resource Pools 0.9.1.1**

- 1.114.1 Available under license
- 1.115 camel-core 1.3.0**
  - 1.115.1 Available under license
- 1.116 cassandra-driver-core 3.1.0**
  - 1.116.1 Available under license
- 1.117 cassandra-driver-extras 3.1.0**
  - 1.117.1 Available under license
- 1.118 cassandra-driver-mapping 3.1.0**
  - 1.118.1 Available under license
- 1.119 cglib 2.1\_3**
  - 1.119.1 Available under license
- 1.120 cglib-full 2.0.2**
  - 1.120.1 Available under license
- 1.121 Class Model for Hk2 2.4.0-b10**
  - 1.121.1 Available under license
- 1.122 class-model 2.5.0-b32**
  - 1.122.1 Available under license
- 1.123 classmate 1.3.3**
  - 1.123.1 Available under license
- 1.124 ClassMate 1.0.0**
  - 1.124.1 Available under license
- 1.125 Code Generation Library 2.2**
  - 1.125.1 Available under license
- 1.126 Codec 1.3**
  - 1.126.1 Available under license
- 1.127 Codec 1.2**
  - 1.127.1 Notifications
  - 1.127.2 Available under license
- 1.128 Collections 3.2**
  - 1.128.1 Available under license
- 1.129 com.cisco.xmp.osgi.commons.logging 1.0.4**
  - 1.129.1 Available under license
- 1.130 com.cisco.xmp.osgi.commons.logging 1.0.4**
  - 1.130.1 Available under license
- 1.131 com.springsource.javax.validation 1.0.0.GA**
  - 1.131.1 Available under license
- 1.132 com.springsource.net.sf.cglib 2.2.0**
  - 1.132.1 Available under license
- 1.133 com.springsource.org.apache.commons.cli 1.2.0**



- 1.133.1 Available under license
- 1.134 com.springsource.org.apache.commons.codec 1.3.0**
- 1.135 com.springsource.org.apache.commons.collections 3.2.0**
  - 1.135.1 Available under license
- 1.136 com.springsource.org.apache.commons.lang 2.4.0**
  - 1.136.1 Available under license
- 1.137 com.springsource.org.hibernate.validator 4.1.0.GA**
  - 1.137.1 Available under license
- 1.138 com.springsource.org.joda.time 1.6.0**
  - 1.138.1 Available under license
- 1.139 com.springsource.slf4j.api 1.5.10**
  - 1.139.1 Available under license
- 1.140 com.springsource.slf4j.api 1.5.6**
  - 1.140.1 Available under license
- 1.141 Commons BeanUtils 1.8.0**
  - 1.141.1 Available under license
- 1.142 Commons BeanUtils 1.8.3**
  - 1.142.1 Available under license
- 1.143 Commons BeanUtils Core 1.8.0**
  - 1.143.1 Available under license
- 1.144 Commons BeanUtils Core 1.8.3**
  - 1.144.1 Available under license
- 1.145 Commons Collections 3.2.1**
  - 1.145.1 Available under license
- 1.146 Commons Collections 3.2.1**
  - 1.146.1 Available under license
- 1.147 Commons Compress 1.4.1**
  - 1.147.1 Available under license
- 1.148 Commons Configuration 1.6**
  - 1.148.1 Available under license
- 1.149 Commons Configuration 1.5**
  - 1.149.1 Available under license
- 1.150 Commons DBCP 1.4 :1.4**
  - 1.150.1 Available under license
- 1.151 Commons DBCP 1.2.2**
  - 1.151.1 Available under license
- 1.152 Commons Digester 2.1**
  - 1.152.1 Available under license
- 1.153 Commons fileupload 1.2.1**

- 1.153.1 Available under license
- 1.154 Commons IO 1.4**
  - 1.154.1 Available under license
- 1.155 Commons IO 2.4**
  - 1.155.1 Available under license
- 1.156 commons lang 2.2**
  - 1.156.1 Available under license
- 1.157 Commons Lang 2.6**
  - 1.157.1 Available under license
- 1.158 Commons Lang 2.4**
  - 1.158.1 Available under license
- 1.159 Commons Lang 2.5**
  - 1.159.1 Available under license
- 1.160 Commons Logging 1.1.3**
  - 1.160.1 Available under license
- 1.161 Commons Logging 1.1.1**
  - 1.161.1 Available under license
- 1.162 Commons Math 2.1**
  - 1.162.1 Available under license
- 1.163 Commons Net 3.1**
  - 1.163.1 Available under license
- 1.164 Commons Net 2.0**
  - 1.164.1 Available under license
- 1.165 Commons Pool 1.5.4**
  - 1.165.1 Available under license
- 1.166 Commons Pool 1.3**
  - 1.166.1 Available under license
- 1.167 Commons Pool 1.6**
  - 1.167.1 Available under license
- 1.168 commons-beanutils 1.7**
  - 1.168.1 Available under license
- 1.169 commons-beanutils 1.9.3**
  - 1.169.1 Available under license
- 1.170 commons-beanutils 1.7.20**
  - 1.170.1 Available under license
- 1.171 commons-beanutils 1.7**
  - 1.171.1 Available under license
- 1.172 commons-codec 1.4 :DUPLICATE**
  - 1.172.1 Available under license

- 1.173 commons-collections 3.2.2**
  - 1.173.1 Available under license
- 1.174 commons-collections 3.1**
  - 1.174.1 Available under license
- 1.175 commons-dbc 20030825.184428**
  - 1.175.1 Available under license
- 1.176 commons-dbc2 2.1.1**
  - 1.176.1 Available under license
- 1.177 commons-digester 1.6.0**
  - 1.177.1 Available under license
- 1.178 commons-digester (DUPLICATE) 1.7**
  - 1.178.1 Available under license
- 1.179 commons-discovery 0.4**
  - 1.179.1 Available under license
- 1.180 commons-discovery 0.4**
  - 1.180.1 Available under license
- 1.181 commons-discovery (DUPLICATE) 0.4**
  - 1.181.1 Available under license
- 1.182 commons-fileupload 1.1.1**
  - 1.182.1 Available under license
- 1.183 commons-io 1.3.2**
  - 1.183.1 Available under license
- 1.184 commons-pool 20030825.183949**
  - 1.184.1 Available under license
- 1.185 commons-pool 20030825.183949**
  - 1.185.1 Available under license
- 1.186 commons-pool2 2.4.2**
  - 1.186.1 Available under license
- 1.187 concurrent 1.0**
  - 1.187.1 Available under license
- 1.188 config-types 2.5.0-b32**
  - 1.188.1 Available under license
- 1.189 Core Hibernate O/RM functionality 4.3.5.Final**
  - 1.189.1 Available under license
- 1.190 Core Hibernate O/RM functionality 4.3.11.Final**
  - 1.190.1 Available under license
- 1.191 csap-starter 1.5.1.10**
  - 1.191.1 Available under license
- 1.192 CsrfGuard 3.1**

- 1.192.1 Available under license
- 1.193 Data Mapper for Jackson 1.9.2**
  - 1.193.1 Available under license
- 1.194 Data Mapper for Jackson 1.8.2**
  - 1.194.1 Available under license
- 1.195 Data Mapper for Jackson 1.9.13 :ASL License**
  - 1.195.1 Available under license
- 1.196 datatables 1.10.12-1**
  - 1.196.1 Available under license
- 1.197 Digester 1.8**
  - 1.197.1 Available under license
- 1.198 dom4j 1.6.1**
  - 1.198.1 Available under license
- 1.199 dom4j 1.6.1**
  - 1.199.1 Available under license
- 1.200 DynamicJasper 3.0.8**
  - 1.200.1 Available under license
- 1.201 EasyCriteria 3.0.0**
  - 1.201.1 Available under license
- 1.202 ecj 4.4**
  - 1.202.1 Available under license
- 1.203 Eclipse ECJ 4.2.2**
  - 1.203.1 Available under license
- 1.204 ehcache 2.10.3**
  - 1.204.1 Available under license
- 1.205 ehcache 2.9.0**
  - 1.205.1 Available under license
- 1.206 ehcache 1.2.3**
  - 1.206.1 Available under license
- 1.207 Ehcache Core 2.6.6**
  - 1.207.1 Available under license
- 1.208 esapi 2.0.1**
  - 1.208.1 Available under license
- 1.209 esapi 2.1.0**
  - 1.209.1 Available under license
- 1.210 ESAPI 2.0 rc9 2.0\_rc9**
  - 1.210.1 Available under license
- 1.211 explorercanvas r3-1**
  - 1.211.1 Available under license

## **1.212 Expression Language 2.2 Implementation 2.2.4**

1.212.1 Available under license

## **1.213 Expression Language API 2.2 2.2.4**

1.213.1 Available under license

## **1.214 Extended StAX API 1.2**

1.214.1 Available under license

## **1.215 ezmorph 1.0.6**

1.215.1 Available under license

## **1.216 ezmorph 1.0.4**

1.216.1 Available under license

## **1.217 fancytree 2.19.0**

1.217.1 Available under license

## **1.218 fastinfoset 1.2.12**

1.218.1 Available under license

## **1.219 fdsapi 1.1**

1.219.1 Available under license

## **1.220 FindBugs-Annotations 1.3.2**

1.220.1 Available under license

## **1.221 FindBugs-jsr305 1.3.9**

1.221.1 Available under license

## **1.222 flot 0.8.3-1**

1.222.1 Available under license

## **1.223 Freemarker 2.3.23**

1.223.1 Available under license

## **1.224 Freemarker 2.3.22**

1.224.1 Available under license

## **1.225 geronimo-activation\_1.1\_spec 1.0-M1**

1.225.1 Available under license

## **1.226 geronimo-j2ee-management\_1.0\_spec 1.0**

1.226.1 Available under license

## **1.227 GlassFish High Availability APIs and SPI 3.1.9**

1.227.1 Available under license

## **1.228 gmbal-api-only 3.1.0-b001**

1.228.1 Available under license

## **1.229 gmbal-api-only 3.0.0-b023**

1.229.1 Available under license

## **1.230 grammatica 1.4**

1.230.1 Available under license

## **1.231 groovy 2.4.7**

- 1.231.1 Available under license
- 1.232 Groovy 2.3.7**
  - 1.232.1 Available under license
- 1.233 groovy-all 1.7.5**
  - 1.233.1 Available under license
- 1.234 groovy-all-1.0-jsr 06**
  - 1.234.1 Available under license
- 1.235 groovy-json 2.3.7**
  - 1.235.1 Available under license
- 1.236 groovy-xml 2.3.7**
  - 1.236.1 Available under license
- 1.237 Guava: Google Core Libraries for Java 16.0.1**
  - 1.237.1 Available under license
- 1.238 Guava: Google Core Libraries for Java 11.0.2**
- 1.239 H2 Database Engine 1.3.165**
  - 1.239.1 Available under license
- 1.240 hadoop-client 2.2.0**
  - 1.240.1 Available under license
- 1.241 hadoop-mapreduce-client-app 2.2.0**
  - 1.241.1 Available under license
- 1.242 hadoop-mapreduce-client-common 2.2.0**
  - 1.242.1 Available under license
- 1.243 hadoop-mapreduce-client-core 2.2.0**
  - 1.243.1 Available under license
- 1.244 hadoop-mapreduce-client-jobclient 2.2.0**
  - 1.244.1 Available under license
- 1.245 hadoop-mapreduce-client-shuffle 2.2.0**
  - 1.245.1 Available under license
- 1.246 hadoop-yarn-api 2.2.0**
  - 1.246.1 Available under license
- 1.247 hadoop-yarn-client 2.2.0**
  - 1.247.1 Available under license
- 1.248 hadoop-yarn-common 2.2.0**
  - 1.248.1 Available under license
- 1.249 hadoop-yarn-server-common 2.2.0**
  - 1.249.1 Available under license
- 1.250 Hamcrest Core 1.1**
  - 1.250.1 Available under license
- 1.251 Hamcrest Core 1.3**

- 1.251.1 Available under license
- 1.252 hamcrest library 1.3**
  - 1.252.1 Available under license
- 1.253 hawtbuf 1.9**
  - 1.253.1 Available under license
- 1.254 hawtbuf 1.11**
  - 1.254.1 Available under license
- 1.255 hawtbuf 1.10**
  - 1.255.1 Available under license
- 1.256 hazelcast-all 3.2.5**
  - 1.256.1 Available under license
- 1.257 Hibernate 3.2.6.ga**
  - 1.257.1 Available under license
- 1.258 Hibernate Commons Annotations 4.0.4.Final**
  - 1.258.1 Available under license
- 1.259 Hibernate Commons Annotations 4.0.5.Final**
  - 1.259.1 Available under license
- 1.260 Hibernate Commons Annotations 3.2.0.Final**
  - 1.260.1 Available under license
- 1.261 Hibernate Core 3.6.2.Final**
  - 1.261.1 Available under license
- 1.262 Hibernate Entity Manager 3.6.2.Final**
  - 1.262.1 Available under license
- 1.263 Hibernate JPA 2 Metamodel Generator 4.3.11.Final**
  - 1.263.1 Available under license
- 1.264 Hibernate JPA 2 Metamodel Generator 1.0.0.Final**
  - 1.264.1 Available under license
- 1.265 Hibernate JPA 2 Metamodel Generator 1.2.0.Final**
- 1.266 Hibernate JPA Support 4.3.5.Final**
  - 1.266.1 Available under license
- 1.267 Hibernate JPA Support 4.3.11.Final**
  - 1.267.1 Available under license
- 1.268 Hibernate Validator 4.1.0.Final**
  - 1.268.1 Available under license
- 1.269 Hibernate Validator Engine 5.1.3.Final**
  - 1.269.1 Available under license
- 1.270 hibernate-commons-annotations 5.0.1.Final**
  - 1.270.1 Available under license
- 1.271 hibernate-core 3.6.3.Final**

- 1.271.1 Available under license
- 1.272 hibernate-core 5.0.11.Final**
  - 1.272.1 Available under license
- 1.273 hibernate-entitymanager 5.0.11.Final**
  - 1.273.1 Available under license
- 1.274 hibernate-validator 5.1.1.Final**
  - 1.274.1 Available under license
- 1.275 hibernate-validator 5.2.4.Final**
  - 1.275.1 Available under license
- 1.276 hibernate-validator 5.3.4.Final**
  - 1.276.1 Available under license
- 1.277 hk2 2.5.0-b32**
  - 1.277.1 Available under license
- 1.278 HK2 API module 2.4.0-b10**
  - 1.278.1 Available under license
- 1.279 HK2 config types 2.4.0-b10**
  - 1.279.1 Available under license
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-- activemq-xmpp

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-- activemq-web

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== For the style.css library           ==
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== For the css.js library

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== For the style.css library           ==
== For the common.js library          ==
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-- activemq-xmpp

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-- activemq-web

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== For the behaviour.js library           ==
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=====
== For the style.css library                 ==
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--activemq-web-console

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== For the css.js library                             ==  
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## 1.23 ant/junit\_3.8.2 1.8.1

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# 1.109 BeanShell core 2.0b4

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# 1.110 Bouncy Castle CMS and S/MIME API

## 1.38

# 1.111 Bouncy Castle OpenPGP API 1.38

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# 1.112 Bouncy Castle Provider 1.38

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 \*/

```
public class LICENSE
{
    public static String licenseText =
        "Copyright (c) 2000-2006 The Legion Of The Bouncy Castle (http://www.bouncycastle.org) "
        + System.getProperty("line.separator")
        + System.getProperty("line.separator")
        + "Permission is hereby granted, free of charge, to any person obtaining a copy of this software "
        + System.getProperty("line.separator")
        + "and associated documentation files (the \"Software\"), to deal in the Software without restriction, "
        + System.getProperty("line.separator")
        + "including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, "
        + System.getProperty("line.separator")
        + "and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so,"
        + System.getProperty("line.separator")
        + "subject to the following conditions:"
        + System.getProperty("line.separator")
        + System.getProperty("line.separator")
        + "The above copyright notice and this permission notice shall be included in all copies or substantial"
        + System.getProperty("line.separator")
        + "portions of the Software."
        + System.getProperty("line.separator")
        + System.getProperty("line.separator")
        + "THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED,"
        + System.getProperty("line.separator")
        + "INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR"
```

```

+ System.getProperty("line.separator")
+ "PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE"
+ System.getProperty("line.separator")
+ "LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
CONTRACT, TORT OR"
+ System.getProperty("line.separator")
+ "OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
OR OTHER"
+ System.getProperty("line.separator")
+ "DEALINGS IN THE SOFTWARE.";

public static void main(
    String[] args)
{
    System.out.println(licenseText);
}
}

```

## 1.113 bsh 2.0b6

### 1.113.1 Available under license :

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## 1.114 c3p0:JDBC DataSources/Resource Pools 0.9.1.1

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```

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## 1.173 commons-collections 3.2.2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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# 1.189 Core Hibernate O/RM functionality

## 4.3.5.Final

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## 1.190 Core Hibernate O/RM functionality

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<http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true>

== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found  
from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well  
as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- \* Reading (parsing) and writing (generation) of Json content
- \* Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- \* Support for converting to/from other data formats and access APIs, to improve interoperability.

#### === Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

#### === Licensing ===

Jackson can be used for any purpose, but to (re)distribute it, distributors (such as libraries and frameworks that use Jackson) will need to choose which License they want to apply to distribution, and to use appropriate jars that enclose license documentation.

No work needed beyond choosing the appropriate jar(s).

Currently two Open Source licenses are available for use:

- \* Apache License 2.0 (AL 2.0)
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=== Contributing ===

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## 1.194 Data Mapper for Jackson 1.8.2

### 1.194.1 Available under license :

```
/* Jackson JSON-processor.  
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*/
```

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# 1.213 Expression Language API 2.2 2.2.4

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# 1.228 gmbal-api-only 3.1.0-b001

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\*/

```

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 *
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# 1.237 Guava: Google Core Libraries for Java

## 16.0.1

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### 1.241 hadoop-mapreduce-client-app 2.2.0

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 \*/

```
package org.apache.hadoop.mapred;

import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.split.JobSplit.TaskSplitMetaInfo;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.job.impl.TaskAttemptImpl;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.util.Clock;

@SuppressWarnings("rawtypes")
public class MapTaskAttemptImpl extends TaskAttemptImpl {

    private final TaskSplitMetaInfo splitInfo;

    public MapTaskAttemptImpl(TaskId taskId, int attempt,
        EventHandler eventHandler, Path jobFile,
        int partition, TaskSplitMetaInfo splitInfo, JobConf conf,
        TaskAttemptListener taskAttemptListener,
        Token<JobTokenIdentifier> jobToken,
        Credentials credentials, Clock clock,
        AppContext appContext) {
        super(taskId, attempt, eventHandler,
            taskAttemptListener, jobFile, partition, conf, splitInfo.getLocations(),
            jobToken, credentials, clock, appContext);
        this.splitInfo = splitInfo;
    }

    @Override
    public Task createRemoteTask() {
        //job file name is set in TaskAttempt, setting it null here
    }
}
```

```

MapTask mapTask =
    new MapTask("", TypeConverter.fromYarn(getID()), partition,
        splitInfo.getSplitIndex(), 1); // YARN doesn't have the concept of slots per task, set it as 1.
mapTask.setUser(conf.get(MRJobConfig.USER_NAME));
mapTask.setConf(conf);
return mapTask;
}

}

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 */

package org.apache.hadoop.mapred;

import java.io.IOException;
import java.net.InetSocketAddress;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeysPublic;
import org.apache.hadoop.ipc.ProtocolSignature;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.ipc.Server;
import org.apache.hadoop.mapred.SortedRanges.Range;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.security.token.JobTokenSecretManager;

```

```

import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.TaskHeartbeatHandler;
import org.apache.hadoop.mapreduce.v2.app.job.Job;
import org.apache.hadoop.mapreduce.v2.app.job.Task;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptStatusUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptStatusUpdateEvent.TaskAttemptStatus;
import org.apache.hadoop.mapreduce.v2.app.rm.RMHeartbeatHandler;
import org.apache.hadoop.mapreduce.v2.app.security.authorize.MRAMPolicyProvider;
import org.apache.hadoop.net.NetUtils;
import org.apache.hadoop.security.authorize.PolicyProvider;
import org.apache.hadoop.service.CompositeService;
import org.apache.hadoop.util.StringInterner;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;

/**
 * This class is responsible for talking to the task umbilical.
 * It also converts all the old data structures
 * to yarn data structures.
 *
 * This class HAS to be in this package to access package private
 * methods/classes.
 */
@SuppressWarnings({"unchecked"})
public class TaskAttemptListenerImpl extends CompositeService
    implements TaskUmbilicalProtocol, TaskAttemptListener {

    private static final JvmTask TASK_FOR_INVALID_JVM = new JvmTask(null, true);

    private static final Log LOG = LogFactory.getLog(TaskAttemptListenerImpl.class);

    private AppContext context;
    private Server server;
    protected TaskHeartbeatHandler taskHeartbeatHandler;
    private RMHeartbeatHandler rmHeartbeatHandler;
    private long commitWindowMs;
    private InetAddress address;
    private ConcurrentMap<WrappedJvmID, org.apache.hadoop.mapred.Task>
        jvmIDToActiveAttemptMap
        = new ConcurrentHashMap<WrappedJvmID, org.apache.hadoop.mapred.Task>();
    private Set<WrappedJvmID> launchedJVMs = Collections
        .newSetFromMap(new ConcurrentHashMap<WrappedJvmID, Boolean>());

    private JobTokenSecretManager jobTokenSecretManager = null;

```

```

public TaskAttemptListenerImpl(AppContext context,
    JobTokenSecretManager jobTokenSecretManager,
    RMHeartbeatHandler rmHeartbeatHandler) {
    super(TaskAttemptListenerImpl.class.getName());
    this.context = context;
    this.jobTokenSecretManager = jobTokenSecretManager;
    this.rmHeartbeatHandler = rmHeartbeatHandler;
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    registerHeartbeatHandler(conf);
    commitWindowMs = conf.getLong(MRJobConfig.MR_AM_COMMIT_WINDOW_MS,
        MRJobConfig.DEFAULT_MR_AM_COMMIT_WINDOW_MS);
    super.serviceInit(conf);
}

@Override
protected void serviceStart() throws Exception {
    startRpcServer();
    super.serviceStart();
}

protected void registerHeartbeatHandler(Configuration conf) {
    taskHeartbeatHandler = new TaskHeartbeatHandler(context.getEventHandler(),
        context.getClock(), conf.getInt(MRJobConfig.MR_AM_TASK_LISTENER_THREAD_COUNT,
            MRJobConfig.DEFAULT_MR_AM_TASK_LISTENER_THREAD_COUNT));
    addService(taskHeartbeatHandler);
}

protected void startRpcServer() {
    Configuration conf = getConfig();
    try {
        server =
            new RPC.Builder(conf).setProtocol(TaskUmbilicalProtocol.class)
                .setInstance(this).setBindAddress("0.0.0.0")
                .setPort(0).setNumHandlers(
                    conf.getInt(MRJobConfig.MR_AM_TASK_LISTENER_THREAD_COUNT,
                        MRJobConfig.DEFAULT_MR_AM_TASK_LISTENER_THREAD_COUNT))
                .setVerbose(false).setSecretManager(jobTokenSecretManager)
                .build();

        // Enable service authorization?
        if (conf.getBoolean(
            CommonConfigurationKeysPublic.HADOOP_SECURITY_AUTHORIZATION,
            false)) {
            refreshServiceAcls(conf, new MRAMPolicyProvider());
        }
    }
}

```

```

        server.start();
        this.address = NetUtils.getConnectAddress(server);
    } catch (IOException e) {
        throw new YarnRuntimeException(e);
    }
}

void refreshServiceAcls(Configuration configuration,
    PolicyProvider policyProvider) {
    this.server.refreshServiceAcl(configuration, policyProvider);
}

@Override
protected void serviceStop() throws Exception {
    stopRpcServer();
    super.serviceStop();
}

protected void stopRpcServer() {
    if (server != null) {
        server.stop();
    }
}

@Override
public InetAddress getAddress() {
    return address;
}

/**
 * Child checking whether it can commit.
 *
 * <br/>
 * Commit is a two-phased protocol. First the attempt informs the
 * ApplicationMaster that it is
 * { @link #commitPending(TaskAttemptID, TaskStatus)}. Then it repeatedly polls
 * the ApplicationMaster whether it { @link #canCommit(TaskAttemptID)} This is
 * a legacy from the centralized commit protocol handling by the JobTracker.
 */
@Override
public boolean canCommit(TaskAttemptID taskAttemptID) throws IOException {
    LOG.info("Commit go/no-go request from " + taskAttemptID.toString());
    // An attempt is asking if it can commit its output. This can be decided
    // only by the task which is managing the multiple attempts. So redirect the
    // request there.
    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);
}

```

```

taskHeartbeatHandler.progressing(attemptID);

// tell task to retry later if AM has not heard from RM within the commit
// window to help avoid double-committing in a split-brain situation
long now = context.getClock().getTime();
if (now - rmHeartbeatHandler.getLastHeartbeatTime() > commitWindowMs) {
    return false;
}

Job job = context.getJob(attemptID.getTaskId().getJobId());
Task task = job.getTask(attemptID.getTaskId());
return task.canCommit(attemptID);
}

/**
 * TaskAttempt is reporting that it is in commit_pending and it is waiting for
 * the commit Response
 *
 * <br/>
 * Commit it a two-phased protocol. First the attempt informs the
 * ApplicationMaster that it is
 * { @link #commitPending(TaskAttemptID, TaskStatus)}. Then it repeatedly polls
 * the ApplicationMaster whether it { @link #canCommit(TaskAttemptID)} This is
 * a legacy from the centralized commit protocol handling by the JobTracker.
 */
@Override
public void commitPending(TaskAttemptID taskAttemptID, TaskStatus taskStatus)
    throws IOException, InterruptedException {
    LOG.info("Commit-pending state update from " + taskAttemptID.toString());
    // An attempt is asking if it can commit its output. This can be decided
    // only by the task which is managing the multiple attempts. So redirect the
    // request there.
    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);

    taskHeartbeatHandler.progressing(attemptID);
    //Ignorable TaskStatus? - since a task will send a LastStatusUpdate
    context.getEventHandler().handle(
        new TaskAttemptEvent(attemptID,
            TaskAttemptEventType.TA_COMMIT_PENDING));
}

@Override
public void done(TaskAttemptID taskAttemptID) throws IOException {
    LOG.info("Done acknowledgement from " + taskAttemptID.toString());

    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =

```



```

    TypeConverter.toYarn(taskAttemptID);

taskHeartbeatHandler.progressing(attemptID);

context.getEventHandler().handle(
    new TaskAttemptEvent(attemptID, TaskAttemptEventType.TA_DONE));
}

@Override
public void fatalError(TaskAttemptID taskAttemptID, String msg)
    throws IOException {
    // This happens only in Child and in the Task.
    LOG.fatal("Task: " + taskAttemptID + " - exited : " + msg);
    reportDiagnosticInfo(taskAttemptID, "Error: " + msg);

    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);
    context.getEventHandler().handle(
        new TaskAttemptEvent(attemptID, TaskAttemptEventType.TA_FAILMSG));
}

@Override
public void fsError(TaskAttemptID taskAttemptID, String message)
    throws IOException {
    // This happens only in Child.
    LOG.fatal("Task: " + taskAttemptID + " - failed due to FSError: "
        + message);
    reportDiagnosticInfo(taskAttemptID, "FSError: " + message);

    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);
    context.getEventHandler().handle(
        new TaskAttemptEvent(attemptID, TaskAttemptEventType.TA_FAILMSG));
}

@Override
public void shuffleError(TaskAttemptID taskAttemptID, String message) throws IOException {
    // TODO: This isn't really used in any MR code. Ask for removal.
}

@Override
public MapTaskCompletionEventsUpdate getMapCompletionEvents(
    JobID jobIdentifier, int startIndex, int maxEvents,
    TaskAttemptID taskAttemptID) throws IOException {
    LOG.info("MapCompletionEvents request from " + taskAttemptID.toString()
        + ". startIndex " + startIndex + " maxEvents " + maxEvents);

    // TODO: shouldReset is never used. See TT. Ask for Removal.
}

```

```

boolean shouldReset = false;
org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
    TypeConverter.toYarn(taskAttemptID);
TaskCompletionEvent[] events =
    context.getJob(attemptID.getTaskId().getJobId()).getMapAttemptCompletionEvents(
        startIndex, maxEvents);

taskHeartbeatHandler.progressing(attemptID);

return new MapTaskCompletionEventsUpdate(events, shouldReset);
}

@Override
public boolean ping(TaskAttemptID taskAttemptID) throws IOException {
    LOG.info("Ping from " + taskAttemptID.toString());
    return true;
}

@Override
public void reportDiagnosticInfo(TaskAttemptID taskAttemptID, String diagnosticInfo)
throws IOException {
    diagnosticInfo = StringInterner.weakIntern(diagnosticInfo);
    LOG.info("Diagnostics report from " + taskAttemptID.toString() + ": "
        + diagnosticInfo);

    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);
    taskHeartbeatHandler.progressing(attemptID);

    // This is mainly used for cases where we want to propagate exception traces
    // of tasks that fail.

    // This call exists as a hadoop mapreduce legacy wherein all changes in
    // counters/progress/phase/output-size are reported through statusUpdate()
    // call but not diagnosticInformation.
    context.getEventHandler().handle(
        new TaskAttemptDiagnosticsUpdateEvent(attemptID, diagnosticInfo));
}

@Override
public boolean statusUpdate(TaskAttemptID taskAttemptID,
    TaskStatus taskStatus) throws IOException, InterruptedException {
    LOG.info("Status update from " + taskAttemptID.toString());
    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId yarnAttemptID =
        TypeConverter.toYarn(taskAttemptID);
    taskHeartbeatHandler.progressing(yarnAttemptID);
    TaskAttemptStatus taskAttemptStatus =
        new TaskAttemptStatus();

```

```

taskAttemptStatus.id = yarnAttemptID;
// Task sends the updated progress to the TT.
taskAttemptStatus.progress = taskStatus.getProgress();
LOG.info("Progress of TaskAttempt " + taskAttemptID + " is : "
    + taskStatus.getProgress());
// Task sends the updated state-string to the TT.
taskAttemptStatus.stateString = taskStatus.getStateString();
// Task sends the updated phase to the TT.
taskAttemptStatus.phase = TypeConverter.toYarn(taskStatus.getPhase());
// Counters are updated by the task. Convert counters into new format as
// that is the primary storage format inside the AM to avoid multiple
// conversions and unnecessary heap usage.
taskAttemptStatus.counters = new org.apache.hadoop.mapreduce.Counters(
    taskStatus.getCounters());

// Map Finish time set by the task (map only)
if (taskStatus.getIsMap() && taskStatus.getMapFinishTime() != 0) {
    taskAttemptStatus.mapFinishTime = taskStatus.getMapFinishTime();
}

// Shuffle Finish time set by the task (reduce only).
if (!taskStatus.getIsMap() && taskStatus.getShuffleFinishTime() != 0) {
    taskAttemptStatus.shuffleFinishTime = taskStatus.getShuffleFinishTime();
}

// Sort finish time set by the task (reduce only).
if (!taskStatus.getIsMap() && taskStatus.getSortFinishTime() != 0) {
    taskAttemptStatus.sortFinishTime = taskStatus.getSortFinishTime();
}

// Not Setting the task state. Used by speculation - will be set in TaskAttemptImpl
//taskAttemptStatus.taskState = TypeConverter.toYarn(taskStatus.getRunState());

//set the fetch failures
if (taskStatus.getFetchFailedMaps() != null
    && taskStatus.getFetchFailedMaps().size() > 0) {
    taskAttemptStatus.fetchFailedMaps =
        new ArrayList<org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId>();
    for (TaskAttemptID failedMapId : taskStatus.getFetchFailedMaps()) {
        taskAttemptStatus.fetchFailedMaps.add(
            TypeConverter.toYarn(failedMapId));
    }
}

// Task sends the information about the nextRecordRange to the TT

// TODO: The following are not needed here, but needed to be set somewhere inside AppMaster.
// taskStatus.getRunState(); // Set by the TT/JT. Transform into a state TODO

```

```

// taskStatus.getStartTime(); // Used to be set by the TaskTracker. This should be set by getTask().
// taskStatus.getFinishTime(); // Used to be set by TT/JT. Should be set when task finishes
// // This was used by TT to do counter updates only once every minute. So this
// // isn't ever changed by the Task itself.
// taskStatus.getIncludeCounters();

context.getEventHandler().handle(
    new TaskAttemptStatusUpdateEvent(taskAttemptStatus.id,
        taskAttemptStatus));
return true;
}

@Override
public long getProtocolVersion(String arg0, long arg1) throws IOException {
    return TaskUmbilicalProtocol.versionID;
}

@Override
public void reportNextRecordRange(TaskAttemptID taskAttemptID, Range range)
    throws IOException {
    // This is used when the feature of skipping records is enabled.

    // This call exists as a hadoop mapreduce legacy wherein all changes in
    // counters/progress/phase/output-size are reported through statusUpdate()
    // call but not the next record range information.
    throw new IOException("Not yet implemented.");
}

@Override
public JvmTask getTask(JvmContext context) throws IOException {

    // A rough imitation of code from TaskTracker.

    JVMId jvmId = context.jvmId;
    LOG.info("JVM with ID : " + jvmId + " asked for a task");

    JvmTask jvmTask = null;
    // TODO: Is it an authorized container to get a task? Otherwise return null.

    // TODO: Child.java's firstTaskID isn't really firstTaskID. Ask for update
    // to jobId and task-type.

    WrappedJvmID wJvmID = new WrappedJvmID(jvmId.getJobId(), jvmId.isMap,
        jvmId.getId());

    // Try to look up the task. We remove it directly as we don't give
    // multiple tasks to a JVM
    if (!jvmIDToActiveAttemptMap.containsKey(wJvmID)) {

```

```

LOG.info("JVM with ID: " + jvmId + " is invalid and will be killed.");
jvmTask = TASK_FOR_INVALID_JVM;
} else {
if (!launchedJVMs.contains(wJvmID)) {
jvmTask = null;
LOG.info("JVM with ID: " + jvmId
+ " asking for task before AM launch registered. Given null task");
} else {
// remove the task as it is no more needed and free up the memory.
// Also we have already told the JVM to process a task, so it is no
// longer pending, and further request should ask it to exit.
org.apache.hadoop.mapred.Task task =
jvmIDToActiveAttemptMap.remove(wJvmID);
launchedJVMs.remove(wJvmID);
LOG.info("JVM with ID: " + jvmId + " given task: " + task.getTaskID());
jvmTask = new JvmTask(task, false);
}
}
return jvmTask;
}

```

```

@Override
public void registerPendingTask(
org.apache.hadoop.mapred.Task task, WrappedJvmID jvmID) {
// Create the mapping so that it is easy to look up
// when the jvm comes back to ask for Task.

// A JVM not present in this map is an illegal task/JVM.
jvmIDToActiveAttemptMap.put(jvmID, task);
}

```

```

@Override
public void registerLaunchedTask(
org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID,
WrappedJvmID jvmId) {
// The AM considers the task to be launched (Has asked the NM to launch it)
// The JVM will only be given a task after this registration.
launchedJVMs.add(jvmId);

taskHeartbeatHandler.register(attemptID);
}

```

```

@Override
public void unregister(
org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID,
WrappedJvmID jvmID) {

// Unregistration also comes from the same TaskAttempt which does the

```

```

// registration. Events are ordered at TaskAttempt, so unregistration will
// always come after registration.

// Remove from launchedJVMs before jvmIDToActiveAttemptMap to avoid
// synchronization issue with getTask(). getTask should be checking
// jvmIDToActiveAttemptMap before it checks launchedJVMs.

// remove the mappings if not already removed
launchedJVMs.remove(jvmID);
jvmIDToActiveAttemptMap.remove(jvmID);

//unregister this attempt
taskHeartbeatHandler.unregister(attemptID);
}

@Override
public ProtocolSignature getProtocolSignature(String protocol,
    long clientVersion, int clientMethodsHash) throws IOException {
    return ProtocolSignature.getProtocolSignature(this,
        protocol, clientVersion, clientMethodsHash);
}
}
/**
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 * limitations under the License.
 */

package org.apache.hadoop.mapred;

import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.app.AppContext;

```

```

import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.job.impl.TaskAttemptImpl;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.util.Clock;

@SuppressWarnings("rawtypes")
public class ReduceTaskAttemptImpl extends TaskAttemptImpl {

    private final int numMapTasks;

    public ReduceTaskAttemptImpl(TaskId id, int attempt,
        EventHandler eventHandler, Path jobFile, int partition,
        int numMapTasks, JobConf conf,
        TaskAttemptListener taskAttemptListener,
        Token<JobTokenIdentifier> jobToken,
        Credentials credentials, Clock clock,
        AppContext appContext) {
        super(id, attempt, eventHandler, taskAttemptListener, jobFile, partition,
            conf, new String[] { }, jobToken, credentials, clock,
            appContext);
        this.numMapTasks = numMapTasks;
    }

    @Override
    public Task createRemoteTask() {
        //job file name is set in TaskAttempt, setting it null here
        ReduceTask reduceTask =
            new ReduceTask("", TypeConverter.fromYarn(getID()), partition,
                numMapTasks, 1); // YARN doesn't have the concept of slots per task, set it as 1.
        reduceTask.setUser(conf.get(MRJobConfig.USER_NAME));
        reduceTask.setConf(conf);
        return reduceTask;
    }
}

/**
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 * regarding copyright ownership. The ASF licenses this file
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 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 */

```

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- \*/

```
package org.apache.hadoop.mapreduce.v2.app.launcher;
```

```
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.LinkedBlockingQueue;
import java.util.concurrent.ThreadFactory;
import java.util.concurrent.ThreadPoolExecutor;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicBoolean;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.mapred.ShuffleHandler;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptContainerLaunchedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEventType;
import org.apache.hadoop.service.AbstractService;
import org.apache.hadoop.util.StringUtils;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainerRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.client.api.impl.ContainerManagementProtocolProxy;
import
org.apache.hadoop.yarn.client.api.impl.ContainerManagementProtocolProxy.ContainerManagementProtocolProxyD
ata;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
```



```

import com.google.common.util.concurrent.ThreadFactoryBuilder;

/**
 * This class is responsible for launching of containers.
 */
public class ContainerLauncherImpl extends AbstractService implements
    ContainerLauncher {

    static final Log LOG = LogFactory.getLog(ContainerLauncherImpl.class);

    private ConcurrentHashMap<ContainerId, Container> containers =
        new ConcurrentHashMap<ContainerId, Container>();
    private final AppContext context;
    protected ThreadPoolExecutor launcherPool;
    protected static final int INITIAL_POOL_SIZE = 10;
    private int limitOnPoolSize;
    private Thread eventHandlingThread;
    protected BlockingQueue<ContainerLauncherEvent> eventQueue =
        new LinkedBlockingQueue<ContainerLauncherEvent>();
    private final AtomicBoolean stopped;
    private ContainerManagementProtocolProxy cmProxy;

    private Container getContainer(ContainerLauncherEvent event) {
        ContainerId id = event.getContainerID();
        Container c = containers.get(id);
        if(c == null) {
            c = new Container(event.getTaskAttemptID(), event.getContainerID(),
                event.getContainerMgrAddress());
            Container old = containers.putIfAbsent(id, c);
            if(old != null) {
                c = old;
            }
        }
        return c;
    }

    private void removeContainerIfDone(ContainerId id) {
        Container c = containers.get(id);
        if(c != null && c.isCompletelyDone()) {
            containers.remove(id);
        }
    }

    private static enum ContainerState {
        PREP, FAILED, RUNNING, DONE, KILLED_BEFORE_LAUNCH
    }
}

```

```

private class Container {
    private ContainerState state;
    // store enough information to be able to cleanup the container
    private TaskAttemptId taskAttemptID;
    private ContainerId containerID;
    final private String containerMgrAddress;

    public Container(TaskAttemptId taId, ContainerId containerID,
        String containerMgrAddress) {
        this.state = ContainerState.PREP;
        this.taskAttemptID = taId;
        this.containerMgrAddress = containerMgrAddress;
        this.containerID = containerID;
    }

    public synchronized boolean isCompletelyDone() {
        return state == ContainerState.DONE || state == ContainerState.FAILED;
    }

    @SuppressWarnings("unchecked")
    public synchronized void launch(ContainerRemoteLaunchEvent event) {
        LOG.info("Launching " + taskAttemptID);
        if(this.state == ContainerState.KILLED_BEFORE_LAUNCH) {
            state = ContainerState.DONE;
            sendContainerLaunchFailedMsg(taskAttemptID,
                "Container was killed before it was launched");
            return;
        }

        ContainerManagementProtocolProxyData proxy = null;
        try {

            proxy = getCMProxy(containerMgrAddress, containerID);

            // Construct the actual Container
            ContainerLaunchContext containerLaunchContext =
                event.getContainerLaunchContext();

            // Now launch the actual container
            StartContainerRequest startRequest =
                StartContainerRequest.newInstance(containerLaunchContext,
                    event.getContainerToken());
            List<StartContainerRequest> list = new ArrayList<StartContainerRequest>();
            list.add(startRequest);
            StartContainersRequest requestList = StartContainersRequest.newInstance(list);
            StartContainersResponse response =
                proxy.getContainerManagementProtocol().startContainers(requestList);
            if (response.getFailedRequests() != null

```

```

        && response.getFailedRequests().containsKey(containerID)) {
            throw response.getFailedRequests().get(containerID).deserialize();
        }
        ByteBuffer portInfo =
            response.getAllServicesMetaData().get(
                ShuffleHandler.MAPREDUCE_SHUFFLE_SERVICEID);
        int port = -1;
        if(portInfo != null) {
            port = ShuffleHandler.deserializeMetaData(portInfo);
        }
        LOG.info("Shuffle port returned by ContainerManager for "
            + taskAttemptID + " : " + port);

        if(port < 0) {
            this.state = ContainerState.FAILED;
            throw new IllegalStateException("Invalid shuffle port number "
                + port + " returned for " + taskAttemptID);
        }

        // after launching, send launched event to task attempt to move
        // it from ASSIGNED to RUNNING state
        context.getEventHandler().handle(
            new TaskAttemptContainerLaunchedEvent(taskAttemptID, port));
        this.state = ContainerState.RUNNING;
    } catch (Throwable t) {
        String message = "Container launch failed for " + containerID + " : "
            + StringUtils.stringifyException(t);
        this.state = ContainerState.FAILED;
        sendContainerLaunchFailedMsg(taskAttemptID, message);
    } finally {
        if (proxy != null) {
            cmProxy.maybeCloseProxy(proxy);
        }
    }
}

@SuppressWarnings("unchecked")
public synchronized void kill() {

    if(this.state == ContainerState.PREP) {
        this.state = ContainerState.KILLED_BEFORE_LAUNCH;
    } else if (!isCompletelyDone()) {
        LOG.info("KILLING " + taskAttemptID);

        ContainerManagementProtocolProxyData proxy = null;
        try {
            proxy = getCMProxy(this.containerMgrAddress, this.containerID);

```

```

// kill the remote container if already launched
List<ContainerId> ids = new ArrayList<ContainerId>();
ids.add(this.containerID);
StopContainersRequest request = StopContainersRequest.newInstance(ids);
StopContainersResponse response =
    proxy.getContainerManagementProtocol().stopContainers(request);
if (response.getFailedRequests() != null
    && response.getFailedRequests().containsKey(this.containerID)) {
    throw response.getFailedRequests().get(this.containerID)
        .deserialize();
}
} catch (Throwable t) {
    // ignore the cleanup failure
    String message = "cleanup failed for container "
        + this.containerID + " : "
        + StringUtils.stringifyException(t);
    context.getEventHandler()
        .handle(
            new TaskAttemptDiagnosticsUpdateEvent(this.taskAttemptID,
                message));
    LOG.warn(message);
} finally {
    if (proxy != null) {
        cmProxy.mayBeCloseProxy(proxy);
    }
}
this.state = ContainerState.DONE;
}
// after killing, send killed event to task attempt
context.getEventHandler().handle(
    new TaskAttemptEvent(this.taskAttemptID,
        TaskAttemptEventType.TA_CONTAINER_CLEANED));
}
}

public ContainerLauncherImpl(AppContext context) {
    super(ContainerLauncherImpl.class.getName());
    this.context = context;
    this.stopped = new AtomicBoolean(false);
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    this.limitOnPoolSize = conf.getInt(
        MRJobConfig.MR_AM_CONTAINERLAUNCHER_THREAD_COUNT_LIMIT,
        MRJobConfig.DEFAULT_MR_AM_CONTAINERLAUNCHER_THREAD_COUNT_LIMIT);
    LOG.info("Upper limit on the thread pool size is " + this.limitOnPoolSize);
    super.serviceInit(conf);
}

```

```

cmProxy = new ContainerManagementProtocolProxy(conf);
}

protected void serviceStart() throws Exception {

    ThreadFactory tf = new ThreadFactoryBuilder().setNameFormat(
        "ContainerLauncher #%d").setDaemon(true).build();

    // Start with a default core-pool size of 10 and change it dynamically.
    launcherPool = new ThreadPoolExecutor(INITIAL_POOL_SIZE,
        Integer.MAX_VALUE, 1, TimeUnit.HOURS,
        new LinkedBlockingQueue<Runnable>(),
        tf);
    eventHandlingThread = new Thread() {
        @Override
        public void run() {
            ContainerLauncherEvent event = null;
            Set<String> allNodes = new HashSet<String>();

            while (!stopped.get() && !Thread.currentThread().isInterrupted()) {
                try {
                    event = eventQueue.take();
                } catch (InterruptedException e) {
                    if (!stopped.get()) {
                        LOG.error("Returning, interrupted : " + e);
                    }
                }
                return;
            }
            allNodes.add(event.getContainerMgrAddress());

            int poolSize = launcherPool.getCorePoolSize();

            // See if we need up the pool size only if haven't reached the
            // maximum limit yet.
            if (poolSize != limitOnPoolSize) {

                // nodes where containers will run at *this* point of time. This is
                // *not* the cluster size and doesn't need to be.
                int numNodes = allNodes.size();
                int idealPoolSize = Math.min(limitOnPoolSize, numNodes);

                if (poolSize < idealPoolSize) {
                    // Bump up the pool size to idealPoolSize+INITIAL_POOL_SIZE, the
                    // later is just a buffer so we are not always increasing the
                    // pool-size
                    int newPoolSize = Math.min(limitOnPoolSize, idealPoolSize
                        + INITIAL_POOL_SIZE);
                    LOG.info("Setting ContainerLauncher pool size to " + newPoolSize

```

```

        + " as number-of-nodes to talk to is " + numNodes);
    launcherPool.setCorePoolSize(newPoolSize);
    }
}

// the events from the queue are handled in parallel
// using a thread pool
launcherPool.execute(createEventProcessor(event));

// TODO: Group launching of multiple containers to a single
// NodeManager into a single connection
}
}
};
eventHandlingThread.setName("ContainerLauncher Event Handler");
eventHandlingThread.start();
super.serviceStart();
}

private void shutdownAllContainers() {
    for (Container ct : this.containers.values()) {
        if (ct != null) {
            ct.kill();
        }
    }
}

protected void serviceStop() throws Exception {
    if (stopped.getAndSet(true)) {
        // return if already stopped
        return;
    }
    // shutdown any containers that might be left running
    shutdownAllContainers();
    if (eventHandlingThread != null) {
        eventHandlingThread.interrupt();
    }
    if (launcherPool != null) {
        launcherPool.shutdownNow();
    }
    super.serviceStop();
}

protected EventProcessor createEventProcessor(ContainerLauncherEvent event) {
    return new EventProcessor(event);
}

/**

```

```

* Setup and start the container on remote nodemanager.
*/
class EventProcessor implements Runnable {
    private ContainerLauncherEvent event;

    EventProcessor(ContainerLauncherEvent event) {
        this.event = event;
    }

    @Override
    public void run() {
        LOG.info("Processing the event " + event.toString());

        // Load ContainerManager tokens before creating a connection.
        // TODO: Do it only once per NodeManager.
        ContainerId containerID = event.getContainerID();

        Container c = getContainer(event);
        switch(event.getType()) {

            case CONTAINER_REMOTE_LAUNCH:
                ContainerRemoteLaunchEvent launchEvent
                    = (ContainerRemoteLaunchEvent) event;
                c.launch(launchEvent);
                break;

            case CONTAINER_REMOTE_CLEANUP:
                c.kill();
                break;
        }
        removeContainerIfDone(containerID);
    }
}

@SuppressWarnings("unchecked")
void sendContainerLaunchFailedMsg(TaskAttemptId taskAttemptID,
    String message) {
    LOG.error(message);
    context.getEventHandler().handle(
        new TaskAttemptDiagnosticsUpdateEvent(taskAttemptID, message));
    context.getEventHandler().handle(
        new TaskAttemptEvent(taskAttemptID,
            TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED));
}

@Override
public void handle(ContainerLauncherEvent event) {
    try {

```

```

        eventQueue.put(event);
    } catch (InterruptedException e) {
        throw new YarnRuntimeException(e);
    }
}

public ContainerManagementProtocolProxy.ContainerManagementProtocolProxyData
    getCMPProxy(String containerMgrBindAddr, ContainerId containerId)
        throws IOException {
    return cmProxy.getProxy(containerMgrBindAddr, containerId);
}
}
/**
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 * regarding copyright ownership. The ASF licenses this file
 * to you under the Apache License, Version 2.0 (the
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.apache.hadoop.mapreduce.v2.app.job.impl;

import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.MapTaskAttemptImpl;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.split.JobSplit.TaskSplitMetaInfo;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.metrics.MRAppMetrics;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.util.Clock;

```



```

@SuppressWarnings({ "rawtypes" })
public class MapTaskImpl extends TaskImpl {

    private final TaskSplitMetaInfo taskSplitMetaInfo;

    public MapTaskImpl(JobId jobId, int partition, EventHandler eventHandler,
        Path remoteJobConfFile, JobConf conf,
        TaskSplitMetaInfo taskSplitMetaInfo,
        TaskAttemptListener taskAttemptListener,
        Token<JobTokenIdentifier> jobToken,
        Credentials credentials, Clock clock,
        int appAttemptId, MRAppMetrics metrics, ApplicationContext appContext) {
        super(jobId, TaskType.MAP, partition, eventHandler, remoteJobConfFile,
            conf, taskAttemptListener, jobToken, credentials, clock,
            appAttemptId, metrics, appContext);
        this.taskSplitMetaInfo = taskSplitMetaInfo;
    }

    @Override
    protected int getMaxAttempts() {
        return conf.getInt(MRJobConfig.MAP_MAX_ATTEMPTS, 4);
    }

    @Override
    protected TaskAttemptImpl createAttempt() {
        return new MapTaskAttemptImpl(getID(), nextAttemptNumber,
            eventHandler, jobFile,
            partition, taskSplitMetaInfo, conf, taskAttemptListener,
            jobToken, credentials, clock, appContext);
    }

    @Override
    public TaskType getType() {
        return TaskType.MAP;
    }

    protected TaskSplitMetaInfo getTaskSplitMetaInfo() {
        return this.taskSplitMetaInfo;
    }

    /**
     * @return a String formatted as a comma-separated list of splits.
     */
    @Override
    protected String getSplitsAsString() {
        String[] splits = getTaskSplitMetaInfo().getLocations();
        if (splits == null || splits.length == 0)
            return "";
    }
}

```

```

    StringBuilder sb = new StringBuilder();
    for (int i = 0; i < splits.length; i++) {
        if (i != 0) sb.append(",");
        sb.append(splits[i]);
    }
    return sb.toString();
}
}
/**
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 * regarding copyright ownership. The ASF licenses this file
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.apache.hadoop.mapreduce.v2.app.job.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Comparator;
import java.util.EnumSet;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapreduce.Counters;
import org.apache.hadoop.mapreduce.MRConfig;

```

```

import org.apache.hadoop.mapreduce.OutputCommitter;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.jobhistory.JobHistoryEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobHistoryParser.TaskAttemptInfo;
import org.apache.hadoop.mapreduce.jobhistory.JobHistoryParser.TaskInfo;
import org.apache.hadoop.mapreduce.jobhistory.TaskFailedEvent;
import org.apache.hadoop.mapreduce.jobhistory.TaskFinishedEvent;
import org.apache.hadoop.mapreduce.jobhistory.TaskStartedEvent;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.Avataar;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEvent;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEventStatus;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptState;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskReport;
import org.apache.hadoop.mapreduce.v2.api.records.TaskState;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.job.Task;
import org.apache.hadoop.mapreduce.v2.app.job.TaskAttempt;
import org.apache.hadoop.mapreduce.v2.app.job.TaskStateInternal;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobMapTaskRescheduledEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobTaskAttemptCompletedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobTaskEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptRecoverEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskRecoverEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskTAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.metrics.MRAppMetrics;
import org.apache.hadoop.mapreduce.v2.app.rm.ContainerFailedEvent;
import org.apache.hadoop.mapreduce.v2.util.MRBuilderUtils;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.util.StringInterner;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.factories.RecordFactory;
import org.apache.hadoop.yarn.factory.providers.RecordFactoryProvider;
import org.apache.hadoop.yarn.state.InvalidStateTransitionException;
import org.apache.hadoop.yarn.state.MultipleArcTransition;

```

```

import org.apache.hadoop.yarn.state.SingleArcTransition;
import org.apache.hadoop.yarn.state.StateMachine;
import org.apache.hadoop.yarn.state.StateMachineFactory;
import org.apache.hadoop.yarn.util.Clock;

import com.google.common.annotations.VisibleForTesting;

/**
 * Implementation of Task interface.
 */
@SuppressWarnings({ "rawtypes", "unchecked" })
public abstract class TaskImpl implements Task, EventHandler<TaskEvent> {

    private static final Log LOG = LogFactory.getLog(TaskImpl.class);

    protected final JobConf conf;
    protected final Path jobFile;
    protected final int partition;
    protected final TaskAttemptListener taskAttemptListener;
    protected final EventHandler eventHandler;
    private final TaskId taskId;
    private Map<TaskAttemptId, TaskAttempt> attempts;
    private final int maxAttempts;
    protected final Clock clock;
    private final Lock readLock;
    private final Lock writeLock;
    private final MRAppMetrics metrics;
    protected final AppContext appContext;
    private long scheduledTime;

    private final RecordFactory recordFactory = RecordFactoryProvider.getRecordFactory(null);

    protected boolean encryptedShuffle;
    protected Credentials credentials;
    protected Token<JobTokenIdentifier> jobToken;

    //should be set to one which comes first
    //saying COMMIT_PENDING
    private TaskAttemptId commitAttempt;

    private TaskAttemptId successfulAttempt;

    private final Set<TaskAttemptId> failedAttempts;
    // Track the finished attempts - successful, failed and killed
    private final Set<TaskAttemptId> finishedAttempts;
    // counts the number of attempts that are either running or in a state where
    // they will come to be running when they get a Container
    private final Set<TaskAttemptId> inProgressAttempts;

```

```

private boolean historyTaskStartGenerated = false;

private static final SingleArcTransition<TaskImpl, TaskEvent>
    ATTEMPT_KILLED_TRANSITION = new AttemptKilledTransition();
private static final SingleArcTransition<TaskImpl, TaskEvent>
    KILL_TRANSITION = new KillTransition();

private static final StateMachineFactory
    <TaskImpl, TaskStateInternal, TaskEventType, TaskEvent>
    stateMachineFactory
    = new StateMachineFactory<TaskImpl, TaskStateInternal, TaskEventType, TaskEvent>
        (TaskStateInternal.NEW)

// define the state machine of Task

// Transitions from NEW state
.addTransition(TaskStateInternal.NEW, TaskStateInternal.SCHEDULED,
    TaskEventType.T_SCHEDULE, new InitialScheduleTransition())
.addTransition(TaskStateInternal.NEW, TaskStateInternal.KILLED,
    TaskEventType.T_KILL, new KillNewTransition())
.addTransition(TaskStateInternal.NEW,
    EnumSet.of(TaskStateInternal.FAILED,
        TaskStateInternal.KILLED,
        TaskStateInternal.RUNNING,
        TaskStateInternal.SUCCEEDED),
    TaskEventType.T_RECOVER, new RecoverTransition())

// Transitions from SCHEDULED state
//when the first attempt is launched, the task state is set to RUNNING
.addTransition(TaskStateInternal.SCHEDULED, TaskStateInternal.RUNNING,
    TaskEventType.T_ATTEMPT_LAUNCHED, new LaunchTransition())
.addTransition(TaskStateInternal.SCHEDULED, TaskStateInternal.KILL_WAIT,
    TaskEventType.T_KILL, KILL_TRANSITION)
.addTransition(TaskStateInternal.SCHEDULED, TaskStateInternal.SCHEDULED,
    TaskEventType.T_ATTEMPT_KILLED, ATTEMPT_KILLED_TRANSITION)
.addTransition(TaskStateInternal.SCHEDULED,
    EnumSet.of(TaskStateInternal.SCHEDULED, TaskStateInternal.FAILED),
    TaskEventType.T_ATTEMPT_FAILED,
    new AttemptFailedTransition())

// Transitions from RUNNING state
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.RUNNING,
    TaskEventType.T_ATTEMPT_LAUNCHED) //more attempts may start later
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.RUNNING,
    TaskEventType.T_ATTEMPT_COMMIT_PENDING,
    new AttemptCommitPendingTransition())
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.RUNNING,

```

```

    TaskEventType.T_ADD_SPEC_ATTEMPT, new RedundantScheduleTransition())
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.SUCCEEDED,
    TaskEventType.T_ATTEMPT_SUCCEEDED,
    new AttemptSucceededTransition())
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.RUNNING,
    TaskEventType.T_ATTEMPT_KILLED,
    ATTEMPT_KILLED_TRANSITION)
.addTransition(TaskStateInternal.RUNNING,
    EnumSet.of(TaskStateInternal.RUNNING, TaskStateInternal.FAILED),
    TaskEventType.T_ATTEMPT_FAILED,
    new AttemptFailedTransition())
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.KILL_WAIT,
    TaskEventType.T_KILL, KILL_TRANSITION)

// Transitions from KILL_WAIT state
.addTransition(TaskStateInternal.KILL_WAIT,
    EnumSet.of(TaskStateInternal.KILL_WAIT, TaskStateInternal.KILLED),
    TaskEventType.T_ATTEMPT_KILLED,
    new KillWaitAttemptKilledTransition())
.addTransition(TaskStateInternal.KILL_WAIT,
    EnumSet.of(TaskStateInternal.KILL_WAIT, TaskStateInternal.KILLED),
    TaskEventType.T_ATTEMPT_SUCCEEDED,
    new KillWaitAttemptSucceededTransition())
.addTransition(TaskStateInternal.KILL_WAIT,
    EnumSet.of(TaskStateInternal.KILL_WAIT, TaskStateInternal.KILLED),
    TaskEventType.T_ATTEMPT_FAILED,
    new KillWaitAttemptFailedTransition())
// Ignore-able transitions.
.addTransition(
    TaskStateInternal.KILL_WAIT,
    TaskStateInternal.KILL_WAIT,
    EnumSet.of(TaskEventType.T_KILL,
        TaskEventType.T_ATTEMPT_LAUNCHED,
        TaskEventType.T_ATTEMPT_COMMIT_PENDING,
        TaskEventType.T_ADD_SPEC_ATTEMPT))

// Transitions from SUCCEEDED state
.addTransition(TaskStateInternal.SUCCEEDED,
    EnumSet.of(TaskStateInternal.SCHEDULED, TaskStateInternal.SUCCEEDED, TaskStateInternal.FAILED),
    TaskEventType.T_ATTEMPT_FAILED, new RetroactiveFailureTransition())
.addTransition(TaskStateInternal.SUCCEEDED,
    EnumSet.of(TaskStateInternal.SCHEDULED, TaskStateInternal.SUCCEEDED),
    TaskEventType.T_ATTEMPT_KILLED, new RetroactiveKilledTransition())
.addTransition(TaskStateInternal.SUCCEEDED, TaskStateInternal.SUCCEEDED,
    TaskEventType.T_ATTEMPT_SUCCEEDED,
    new AttemptSucceededAtSucceededTransition())
// Ignore-able transitions.
.addTransition(

```

```

TaskStateInternal.SUCCEEDED, TaskStateInternal.SUCCEEDED,
EnumSet.of(TaskEventType.T_ADD_SPEC_ATTEMPT,
TaskEventType.T_ATTEMPT_COMMIT_PENDING,
TaskEventType.T_ATTEMPT_LAUNCHED,
TaskEventType.T_KILL))

// Transitions from FAILED state
.addTransition(TaskStateInternal.FAILED, TaskStateInternal.FAILED,
EnumSet.of(TaskEventType.T_KILL,
TaskEventType.T_ADD_SPEC_ATTEMPT,
TaskEventType.T_ATTEMPT_COMMIT_PENDING,
TaskEventType.T_ATTEMPT_FAILED,
TaskEventType.T_ATTEMPT_KILLED,
TaskEventType.T_ATTEMPT_LAUNCHED,
TaskEventType.T_ATTEMPT_SUCCEEDED))

// Transitions from KILLED state
.addTransition(TaskStateInternal.KILLED, TaskStateInternal.KILLED,
EnumSet.of(TaskEventType.T_KILL,
TaskEventType.T_ADD_SPEC_ATTEMPT))

// create the topology tables
.installTopology();

private final StateMachine<TaskStateInternal, TaskEventType, TaskEvent>
stateMachine;

// By default, the next TaskAttempt number is zero. Changes during recovery
protected int nextAttemptNumber = 0;

// For sorting task attempts by completion time
private static final Comparator<TaskAttemptInfo> TA_INFO_COMPARATOR =
new Comparator<TaskAttemptInfo>() {
@Override
public int compare(TaskAttemptInfo a, TaskAttemptInfo b) {
long diff = a.getFinishTime() - b.getFinishTime();
return diff == 0 ? 0 : (diff < 0 ? -1 : 1);
}
};

@Override
public TaskState getState() {
readLock.lock();
try {
return getExternalState(getInternalState());
} finally {
readLock.unlock();
}
}

```

```

}

public TaskImpl(JobId jobId, TaskType taskType, int partition,
    EventHandler eventHandler, Path remoteJobConfFile, JobConf conf,
    TaskAttemptListener taskAttemptListener,
    Token<JobTokenIdentifier> jobToken,
    Credentials credentials, Clock clock,
    int appAttemptId, MRAppMetrics metrics, ApplicationContext appContext) {
    this.conf = conf;
    this.clock = clock;
    this.jobFile = remoteJobConfFile;
    ReadWriteLock readWriteLock = new ReentrantReadWriteLock();
    readLock = readWriteLock.readLock();
    writeLock = readWriteLock.writeLock();
    this.attempts = Collections.emptyMap();
    this.finishedAttempts = new HashSet<TaskAttemptId>(2);
    this.failedAttempts = new HashSet<TaskAttemptId>(2);
    this.inProgressAttempts = new HashSet<TaskAttemptId>(2);
    // This overridable method call is okay in a constructor because we
    // have a convention that none of the overrides depends on any
    // fields that need initialization.
    maxAttempts = getMaxAttempts();
    taskId = MRBuilderUtils.newTaskId(jobId, partition, taskType);
    this.partition = partition;
    this.taskAttemptListener = taskAttemptListener;
    this.eventHandler = eventHandler;
    this.credentials = credentials;
    this.jobToken = jobToken;
    this.metrics = metrics;
    this.appContext = appContext;
    this.encryptedShuffle = conf.getBoolean(MRConfig.SHUFFLE_SSL_ENABLED_KEY,
        MRConfig.SHUFFLE_SSL_ENABLED_DEFAULT);

    // This "this leak" is okay because the retained pointer is in an
    // instance variable.
    stateMachine = stateMachineFactory.make(this);

    // All the new TaskAttemptIDs are generated based on MR
    // ApplicationAttemptID so that attempts from previous lives don't
    // over-step the current one. This assumes that a task won't have more
    // than 1000 attempts in its single generation, which is very reasonable.
    nextAttemptNumber = (appAttemptId - 1) * 1000;
}

@Override
public Map<TaskAttemptId, TaskAttempt> getAttempts() {
    readLock.lock();

```



```

try {
    if (attempts.size() <= 1) {
        return attempts;
    }

    Map<TaskAttemptId, TaskAttempt> result
        = new LinkedHashMap<TaskAttemptId, TaskAttempt>();
    result.putAll(attempts);

    return result;
} finally {
    readLock.unlock();
}
}

@Override
public TaskAttempt getAttempt(TaskAttemptId attemptID) {
    readLock.lock();
    try {
        return attempts.get(attemptID);
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskId getID() {
    return taskId;
}

@Override
public boolean isFinished() {
    readLock.lock();
    try {
        // TODO: Use stateMachine level method?
        return (getInternalState() == TaskStateInternal.SUCCEEDED ||
            getInternalState() == TaskStateInternal.FAILED ||
            getInternalState() == TaskStateInternal.KILLED);
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskReport getReport() {
    TaskReport report = recordFactory.newRecordInstance(TaskReport.class);
    readLock.lock();
    try {

```

```

report.setTaskId(taskId);
report.setStartTime(getLaunchTime());
report.setFinishTime(getFinishTime());
report.setTaskState(getState());
report.setProgress(getProgress());

for (TaskAttempt attempt : attempts.values()) {
    if (TaskAttemptState.RUNNING.equals(attempt.getState())) {
        report.addRunningAttempt(attempt.getID());
    }
}

report.setSuccessfulAttempt(successfulAttempt);

for (TaskAttempt att : attempts.values()) {
    String prefix = "AttemptID:" + att.getID() + " Info:";
    for (CharSequence cs : att.getDiagnostics()) {
        report.addDiagnostics(prefix + cs);
    }
}

// Add a copy of counters as the last step so that their lifetime on heap
// is as small as possible.
report.setCounters(TypeConverter.toYarn(getCounters()));

return report;
} finally {
    readLock.unlock();
}
}

@Override
public Counters getCounters() {
    Counters counters = null;
    readLock.lock();
    try {
        TaskAttempt bestAttempt = selectBestAttempt();
        if (bestAttempt != null) {
            counters = bestAttempt.getCounters();
        } else {
            counters = TaskAttemptImpl.EMPTY_COUNTERS;
        }
        // counters.groups = new HashMap<CharSequence, CounterGroup>();
    }
    return counters;
} finally {
    readLock.unlock();
}
}

```

```

}

@Override
public float getProgress() {
    readLock.lock();
    try {
        TaskAttempt bestAttempt = selectBestAttempt();
        if (bestAttempt == null) {
            return 0f;
        }
        return bestAttempt.getProgress();
    } finally {
        readLock.unlock();
    }
}

@VisibleForTesting
public TaskStateInternal getInternalState() {
    readLock.lock();
    try {
        return stateMachine.getCurrentState();
    } finally {
        readLock.unlock();
    }
}

private static TaskState getExternalState(TaskStateInternal smState) {
    if (smState == TaskStateInternal.KILL_WAIT) {
        return TaskState.KILLED;
    } else {
        return TaskState.valueOf(smState.name());
    }
}

//this is always called in read/write lock
private long getLaunchTime() {
    long taskLaunchTime = 0;
    boolean launchTimeSet = false;
    for (TaskAttempt at : attempts.values()) {
        // select the least launch time of all attempts
        long attemptLaunchTime = at.getLaunchTime();
        if (attemptLaunchTime != 0 && !launchTimeSet) {
            // For the first non-zero launch time
            launchTimeSet = true;
            taskLaunchTime = attemptLaunchTime;
        } else if (attemptLaunchTime != 0 && taskLaunchTime > attemptLaunchTime) {
            taskLaunchTime = attemptLaunchTime;
        }
    }
}

```

```

    }
    if (!launchTimeSet) {
        return this.scheduledTime;
    }
    return taskLaunchTime;
}

//this is always called in read/write lock
//TODO Verify behaviour is Task is killed (no finished attempt)
private long getFinishTime() {
    if (!isFinished()) {
        return 0;
    }
    long finishTime = 0;
    for (TaskAttempt at : attempts.values()) {
        //select the max finish time of all attempts
        if (finishTime < at.getFinishTime()) {
            finishTime = at.getFinishTime();
        }
    }
    return finishTime;
}

private long getFinishTime(TaskAttemptId taId) {
    if (taId == null) {
        return clock.getTime();
    }
    long finishTime = 0;
    for (TaskAttempt at : attempts.values()) {
        //select the max finish time of all attempts
        if (at.getID().equals(taId)) {
            return at.getFinishTime();
        }
    }
    return finishTime;
}

private TaskStateInternal finished(TaskStateInternal finalState) {
    if (getInternalState() == TaskStateInternal.RUNNING) {
        metrics.endRunningTask(this);
    }
    return finalState;
}

//select the nextAttemptNumber with best progress
// always called inside the Read Lock
private TaskAttempt selectBestAttempt() {
    if (successfulAttempt != null) {

```

```

    return attempts.get(successfulAttempt);
}

float progress = 0f;
TaskAttempt result = null;
for (TaskAttempt at : attempts.values()) {
    switch (at.getState()) {

        // ignore all failed task attempts
        case FAILED:
        case KILLED:
            continue;
    }
    if (result == null) {
        result = at; //The first time around
    }
    // calculate the best progress
    float attemptProgress = at.getProgress();
    if (attemptProgress > progress) {
        result = at;
        progress = attemptProgress;
    }
}
return result;
}

@Override
public boolean canCommit(TaskAttemptId taskAttemptID) {
    readLock.lock();
    boolean canCommit = false;
    try {
        if (commitAttempt != null) {
            canCommit = taskAttemptID.equals(commitAttempt);
            LOG.info("Result of canCommit for " + taskAttemptID + ":" + canCommit);
        }
    } finally {
        readLock.unlock();
    }
    return canCommit;
}

protected abstract TaskAttemptImpl createAttempt();

// No override of this method may require that the subclass be initialized.
protected abstract int getMaxAttempts();

protected TaskAttempt getSuccessfulAttempt() {
    readLock.lock();

```

```

try {
    if (null == successfulAttempt) {
        return null;
    }
    return attempts.get(successfulAttempt);
} finally {
    readLock.unlock();
}
}

// This is always called in the Write Lock
private void addAndScheduleAttempt(Avataar avataar) {
    TaskAttempt attempt = addAttempt(avataar);
    inProgressAttempts.add(attempt.getID());
    //schedule the nextAttemptNumber
    if (failedAttempts.size() > 0) {
        eventHandler.handle(new TaskAttemptEvent(attempt.getID(),
            TaskAttemptEventType.TA_RESCCHEDULE));
    } else {
        eventHandler.handle(new TaskAttemptEvent(attempt.getID(),
            TaskAttemptEventType.TA_SCHEDULE));
    }
}

private TaskAttemptImpl addAttempt(Avataar avataar) {
    TaskAttemptImpl attempt = createAttempt();
    attempt.setAvataar(avataar);
    if (LOG.isDebugEnabled()) {
        LOG.debug("Created attempt " + attempt.getID());
    }
    switch (attempts.size()) {
        case 0:
            attempts = Collections.singletonMap(attempt.getID(),
                (TaskAttempt) attempt);
            break;

        case 1:
            Map<TaskAttemptId, TaskAttempt> newAttempts
                = new LinkedHashMap<TaskAttemptId, TaskAttempt>(maxAttempts);
            newAttempts.putAll(attempts);
            attempts = newAttempts;
            attempts.put(attempt.getID(), attempt);
            break;

        default:
            attempts.put(attempt.getID(), attempt);
            break;
    }
}

```

```

++nextAttemptNumber;
return attempt;
}

@Override
public void handle(TaskEvent event) {
    if (LOG.isDebugEnabled()) {
        LOG.debug("Processing " + event.getTaskID() + " of type "
            + event.getType());
    }
    try {
        writeLock.lock();
        TaskStateInternal oldState = getInternalState();
        try {
            stateMachine.doTransition(event.getType(), event);
        } catch (InvalidStateTransitionException e) {
            LOG.error("Can't handle this event at current state for "
                + this.taskId, e);
            internalError(event.getType());
        }
        if (oldState != getInternalState()) {
            LOG.info(taskId + " Task Transitioned from " + oldState + " to "
                + getInternalState());
        }
    } finally {
        writeLock.unlock();
    }
}

protected void internalError(TaskEventType type) {
    LOG.error("Invalid event " + type + " on Task " + this.taskId);
    eventHandler.handle(new JobDiagnosticsUpdateEvent(
        this.taskId.getJobId(), "Invalid event " + type +
        " on Task " + this.taskId));
    eventHandler.handle(new JobEvent(this.taskId.getJobId(),
        JobEventType.INTERNAL_ERROR));
}

// always called inside a transition, in turn inside the Write Lock
private void handleTaskAttemptCompletion(TaskAttemptId attemptId,
    TaskAttemptCompletionEventStatus status) {
    TaskAttempt attempt = attempts.get(attemptId);
    //raise the completion event only if the container is assigned
    // to nextAttemptNumber
    if (attempt.getNodeHttpAddress() != null) {
        TaskAttemptCompletionEvent tce = recordFactory

```

```

        .newRecordInstance(TaskAttemptCompletionEvent.class);
tce.setEventId(-1);
String scheme = (encryptedShuffle) ? "https://" : "http://";
tce.setMapOutputServerAddress(StringInterner.weakIntern(scheme
    + attempt.getNodeHttpAddress().split(":")[0] + ":"
    + attempt.getShufflePort()));
tce.setStatus(status);
tce.setAttemptId(attempt.getID());
int runTime = 0;
if (attempt.getFinishTime() != 0 && attempt.getLaunchTime() != 0)
    runTime = (int)(attempt.getFinishTime() - attempt.getLaunchTime());
tce.setAttemptRunTime(runTime);

//raise the event to job so that it adds the completion event to its
//data structures
eventHandler.handle(new JobTaskAttemptCompletedEvent(tce));
}
}

private void sendTaskStartedEvent() {
    TaskStartedEvent tse = new TaskStartedEvent(
        TypeConverter.fromYarn(taskId), getLaunchTime(),
        TypeConverter.fromYarn(taskId.getTaskType()),
        getSplitsAsString());
    eventHandler
        .handle(new JobHistoryEvent(taskId.getJobId(), tse));
    historyTaskStartGenerated = true;
}

private static TaskFinishedEvent createTaskFinishedEvent(TaskImpl task, TaskStateInternal taskState) {
    TaskFinishedEvent tfe =
        new TaskFinishedEvent(TypeConverter.fromYarn(task.taskId),
            TypeConverter.fromYarn(task.successfulAttempt),
            task.getFinishTime(task.successfulAttempt),
            TypeConverter.fromYarn(task.taskId.getTaskType()),
            taskState.toString(),
            task.getCounters());
    return tfe;
}

private static TaskFailedEvent createTaskFailedEvent(TaskImpl task, List<String> diag, TaskStateInternal
taskState, TaskAttemptId taId) {
    StringBuilder errorSb = new StringBuilder();
    if (diag != null) {
        for (String d : diag) {
            errorSb.append(", ").append(d);
        }
    }
}

```



```

TaskFailedEvent taskFailedEvent = new TaskFailedEvent(
    TypeConverter.fromYarn(task.taskId),
    // Hack since getFinishTime needs isFinished to be true and that doesn't happen till after the transition.
    task.getFinishTime(taskId),
    TypeConverter.fromYarn(task.getType()),
    errorSb.toString(),
    taskState.toString(),
    taskId == null ? null : TypeConverter.fromYarn(taskId),
    task.getCounters());
return taskFailedEvent;
}

private static void unSucceed(TaskImpl task) {
    task.commitAttempt = null;
    task.successfulAttempt = null;
}

private void sendTaskSucceededEvents() {
    eventHandler.handle(new JobTaskEvent(taskId, TaskState.SUCCEEDED));
    LOG.info("Task succeeded with attempt " + successfulAttempt);
    if (historyTaskStartGenerated) {
        TaskFinishedEvent tfe = createTaskFinishedEvent(this,
            TaskStateInternal.SUCCEEDED);
        eventHandler.handle(new JobHistoryEvent(taskId.getJobId(), tfe));
    }
}

/**
 * @return a String representation of the splits.
 *
 * Subclasses can override this method to provide their own representations
 * of splits (if any).
 */
protected String getSplitsAsString(){
    return "";
}

/**
 * Recover a completed task from a previous application attempt
 * @param taskInfo recovered info about the task
 * @param recoverTaskOutput whether to recover task outputs
 * @return state of the task after recovery
 */
private TaskStateInternal recover(TaskInfo taskInfo,
    OutputCommitter committer, boolean recoverTaskOutput) {
    LOG.info("Recovering task " + taskId
        + " from prior app attempt, status was " + taskInfo.getTaskStatus());
}

```

```

scheduledTime = taskInfo.getStartTime();
sendTaskStartedEvent();
Collection<TaskAttemptInfo> attemptInfos =
    taskInfo.getAllTaskAttempts().values();

if (attemptInfos.size() > 0) {
    metrics.launchedTask(this);
}

// recover the attempts for this task in the order they finished
// so task attempt completion events are ordered properly
int savedNextAttemptNumber = nextAttemptNumber;
ArrayList<TaskAttemptInfo> taInfos =
    new ArrayList<TaskAttemptInfo>(taskInfo.getAllTaskAttempts().values());
Collections.sort(taInfos, TA_INFO_COMPARATOR);
for (TaskAttemptInfo taInfo : taInfos) {
    nextAttemptNumber = taInfo.getAttemptId().getId();
    TaskAttemptImpl attempt = addAttempt(Avataar.VIRGIN);
    // handle the recovery inline so attempts complete before task does
    attempt.handle(new TaskAttemptRecoverEvent(attempt.getID(), taInfo,
        committer, recoverTaskOutput));
    finishedAttempts.add(attempt.getID());
    TaskAttemptCompletionEventStatus taces = null;
    TaskAttemptState attemptState = attempt.getState();
    switch (attemptState) {
    case FAILED:
        taces = TaskAttemptCompletionEventStatus.FAILED;
        break;
    case KILLED:
        taces = TaskAttemptCompletionEventStatus.KILLED;
        break;
    case SUCCEEDED:
        taces = TaskAttemptCompletionEventStatus.SUCCEEDED;
        break;
    default:
        throw new IllegalStateException(
            "Unexpected attempt state during recovery: " + attemptState);
    }
    if (attemptState == TaskAttemptState.FAILED) {
        failedAttempts.add(attempt.getID());
        if (failedAttempts.size() >= maxAttempts) {
            taces = TaskAttemptCompletionEventStatus.TIPFAILED;
        }
    }
}

// don't clobber the successful attempt completion event
// TODO: this shouldn't be necessary after MAPREDUCE-4330

```

```

if (successfulAttempt == null) {
    handleTaskAttemptCompletion(attempt.getID(), taces);
    if (attemptState == TaskAttemptState.SUCCEEDED) {
        successfulAttempt = attempt.getID();
    }
}
}
}
nextAttemptNumber = savedNextAttemptNumber;

TaskStateInternal taskState = TaskStateInternal.valueOf(
    taskInfo.getTaskStatus());
switch (taskState) {
case SUCCEEDED:
    if (successfulAttempt != null) {
        sendTaskSucceededEvents();
    } else {
        LOG.info("Missing successful attempt for task " + taskId
            + ", recovering as RUNNING");
        // there must have been a fetch failure and the retry wasn't complete
        taskState = TaskStateInternal.RUNNING;
        metrics.runningTask(this);
        addAndScheduleAttempt(Avataar.VIRGIN);
    }
    break;
case FAILED:
case KILLED:
{
    if (taskState == TaskStateInternal.KILLED && attemptInfos.size() == 0) {
        metrics.endWaitingTask(this);
    }
    TaskFailedEvent tfe = new TaskFailedEvent(taskInfo.getTaskId(),
        taskInfo.getFinishTime(), taskInfo.getTaskType(),
        taskInfo.getError(), taskInfo.getTaskStatus(),
        taskInfo.getFailedDueToAttemptId(), taskInfo.getCounters());
    eventHandler.handle(new JobHistoryEvent(taskId.getJobId(), tfe));
    eventHandler.handle(
        new JobTaskEvent(taskId, getExternalState(taskState)));
    break;
}
default:
    throw new java.lang.AssertionError("Unexpected recovered task state: "
        + taskState);
}

return taskState;
}

```

```
private static class RecoverTransition
```

```

implements MultipleArcTransition<TaskImpl, TaskEvent, TaskStateInternal> {

@Override
public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
    TaskRecoverEvent tre = (TaskRecoverEvent) event;
    return task.recover(tre.getTaskInfo(), tre.getOutputCommitter(),
        tre.getRecoverTaskOutput());
}
}

private static class InitialScheduleTransition
implements SingleArcTransition<TaskImpl, TaskEvent> {

@Override
public void transition(TaskImpl task, TaskEvent event) {
    task.addAndScheduleAttempt(Avataar.VIRGIN);
    task.scheduledTime = task.clock.getTime();
    task.sendTaskStartedEvent();
}
}

// Used when creating a new attempt while one is already running.
// Currently we do this for speculation. In the future we may do this
// for tasks that failed in a way that might indicate application code
// problems, so we can take later failures in parallel and flush the
// job quickly when this happens.
private static class RedundantScheduleTransition
implements SingleArcTransition<TaskImpl, TaskEvent> {

@Override
public void transition(TaskImpl task, TaskEvent event) {
    LOG.info("Scheduling a redundant attempt for task " + task.taskId);
    task.addAndScheduleAttempt(Avataar.SPECULATIVE);
}
}

private static class AttemptCommitPendingTransition
implements SingleArcTransition<TaskImpl, TaskEvent> {
@Override
public void transition(TaskImpl task, TaskEvent event) {
    TaskTAttemptEvent ev = (TaskTAttemptEvent) event;
    // The nextAttemptNumber is commit pending, decide on set the commitAttempt
    TaskAttemptId attemptID = ev.getTaskAttemptID();
    if (task.commitAttempt == null) {
        // TODO: validate attemptID
        task.commitAttempt = attemptID;
        LOG.info(attemptID + " given a go for committing the task output.");
    } else {

```

```

// Don't think this can be a pluggable decision, so simply raise an
// event for the TaskAttempt to delete its output.
LOG.info(task.commitAttempt
    + " already given a go for committing the task output, so killing "
    + attemptID);
task.eventHandler.handle(new TaskAttemptEvent(
    attemptID, TaskAttemptEventType.TA_KILL));
}
}
}

private static class AttemptSucceededTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent taskTAttemptEvent = (TaskTAttemptEvent) event;
        TaskAttemptId taskAttemptId = taskTAttemptEvent.getTaskAttemptID();
        task.handleTaskAttemptCompletion(
            taskAttemptId,
            TaskAttemptCompletionEventStatus.SUCCEEDED);
        task.finishedAttempts.add(taskAttemptId);
        task.inProgressAttempts.remove(taskAttemptId);
        task.successfulAttempt = taskAttemptId;
        task.sendTaskSucceededEvents();
        for (TaskAttempt attempt : task.attempts.values()) {
            if (attempt.getID() != task.successfulAttempt &&
                // This is okay because it can only talk us out of sending a
                // TA_KILL message to an attempt that doesn't need one for
                // other reasons.
                !attempt.isFinished()) {
                LOG.info("Issuing kill to other attempt " + attempt.getID());
                task.eventHandler.handle(
                    new TaskAttemptEvent(attempt.getID(),
                        TaskAttemptEventType.TA_KILL));
            }
        }
        task.finished(TaskStateInternal.SUCCEEDED);
    }
}

```

```

private static class AttemptKilledTransition implements
    SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        TaskAttemptId taskAttemptId =
            ((TaskTAttemptEvent) event).getTaskAttemptID();
        task.handleTaskAttemptCompletion(
            taskAttemptId,

```

```

    TaskAttemptCompletionEventStatus.KILLED);
task.finishedAttempts.add(taskAttemptId);
task.inProgressAttempts.remove(taskAttemptId);
if (task.successfulAttempt == null) {
    task.addAndScheduleAttempt(Avataar.VIRGIN);
}
if ((task.commitAttempt != null) && (task.commitAttempt == taskAttemptId)) {
task.commitAttempt = null;
}
}
}
}

```

```

private static class KillWaitAttemptKilledTransition implements
    MultipleArcTransition<TaskImpl, TaskEvent, TaskStateInternal> {

```

```

    protected TaskStateInternal finalState = TaskStateInternal.KILLED;
    protected final TaskAttemptCompletionEventStatus taCompletionEventStatus;

```

```

    public KillWaitAttemptKilledTransition() {
        this(TaskAttemptCompletionEventStatus.KILLED);
    }

```

```

    public KillWaitAttemptKilledTransition(
        TaskAttemptCompletionEventStatus taCompletionEventStatus) {
        this.taCompletionEventStatus = taCompletionEventStatus;
    }

```

@Override

```

    public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
        TaskAttemptId taskAttemptId =
            ((TaskAttemptEvent) event).getTaskAttemptID();
        task.handleTaskAttemptCompletion(taskAttemptId, taCompletionEventStatus);
        task.finishedAttempts.add(taskAttemptId);
        // check whether all attempts are finished
        if (task.finishedAttempts.size() == task.attempts.size()) {
            if (task.historyTaskStartGenerated) {
                TaskFailedEvent taskFailedEvent = createTaskFailedEvent(task, null,
                    finalState, null); // TODO JH verify failedAttempt null
                task.eventHandler.handle(new JobHistoryEvent(task.taskId.getJobId(),
                    taskFailedEvent));
            } else {
                LOG.debug("Not generating HistoryFinish event since start event not" +
                    " generated for task: " + task.getID());
            }
        }

```

```

        task.eventHandler.handle(
            new JobTaskEvent(task.taskId, getExternalState(finalState)));
    }

```

```

        return finalState;
    }
    return task.getInternalState();
}
}

private static class KillWaitAttemptSucceededTransition extends
    KillWaitAttemptKilledTransition {
    public KillWaitAttemptSucceededTransition() {
        super(TaskAttemptCompletionEventStatus.SUCCEEDED);
    }
}

private static class KillWaitAttemptFailedTransition extends
    KillWaitAttemptKilledTransition {
    public KillWaitAttemptFailedTransition() {
        super(TaskAttemptCompletionEventStatus.FAILED);
    }
}

private static class AttemptFailedTransition implements
    MultipleArcTransition<TaskImpl, TaskEvent, TaskStateInternal> {

    @Override
    public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
        TaskAttemptId taskAttemptId = castEvent.getTaskAttemptID();
        task.failedAttempts.add(taskAttemptId);
        if (taskAttemptId.equals(task.commitAttempt)) {
            task.commitAttempt = null;
        }
        TaskAttempt attempt = task.attempts.get(taskAttemptId);
        if (attempt.getAssignedContainerMgrAddress() != null) {
            //container was assigned
            task.eventHandler.handle(new ContainerFailedEvent(attempt.getID(),
                attempt.getAssignedContainerMgrAddress()));
        }

        task.finishedAttempts.add(taskAttemptId);
        if (task.failedAttempts.size() < task.maxAttempts) {
            task.handleTaskAttemptCompletion(
                taskAttemptId,
                TaskAttemptCompletionEventStatus.FAILED);
            // we don't need a new event if we already have a spare
            task.inProgressAttempts.remove(taskAttemptId);
            if (task.inProgressAttempts.size() == 0
                && task.successfulAttempt == null) {
                task.addAndScheduleAttempt(Avataar.VIRGIN);
            }
        }
    }
}

```

```

    }
} else {
    task.handleTaskAttemptCompletion(
        taskAttemptId,
        TaskAttemptCompletionEventStatus.TIPFAILED);

    // issue kill to all non finished attempts
    for (TaskAttempt taskAttempt : task.attempts.values()) {
        task.killUnfinishedAttempt
            (taskAttempt, "Task has failed. Killing attempt!");
    }
    task.inProgressAttempts.clear();

    if (task.historyTaskStartGenerated) {
        TaskFailedEvent taskFailedEvent = createTaskFailedEvent(task, attempt.getDiagnostics(),
            TaskStateInternal.FAILED, taskAttemptId);
        task.eventHandler.handle(new JobHistoryEvent(task.taskId.getJobId(),
            taskFailedEvent));
    } else {
        LOG.debug("Not generating HistoryFinish event since start event not" +
            " generated for task: " + task.getID());
    }
    task.eventHandler.handle(
        new JobTaskEvent(task.taskId, TaskState.FAILED));
    return task.finished(TaskStateInternal.FAILED);
}
return getDefaultState(task);
}

protected TaskStateInternal getDefaultState(TaskImpl task) {
    return task.getInternalState();
}

private static class RetroactiveFailureTransition
    extends AttemptFailedTransition {

    @Override
    public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
        if (task.getInternalState() == TaskStateInternal.SUCCEEDED &&
            !castEvent.getTaskAttemptID().equals(task.successfulAttempt)) {
            // don't allow a different task attempt to override a previous
            // succeeded state
            task.finishedAttempts.add(castEvent.getTaskAttemptID());
            task.inProgressAttempts.remove(castEvent.getTaskAttemptID());
            return TaskStateInternal.SUCCEEDED;
        }
    }
}

```



```

// a successful REDUCE task should not be overridden
//TODO: consider moving it to MapTaskImpl
if (!TaskType.MAP.equals(task.getType())) {
    LOG.error("Unexpected event for REDUCE task " + event.getType());
    task.internalError(event.getType());
}

// tell the job about the rescheduling
task.eventHandler.handle(
    new JobMapTaskRescheduledEvent(task.taskId));
// super.transition is mostly coded for the case where an
// UNcompleted task failed. When a COMPLETED task retroactively
// fails, we have to let AttemptFailedTransition.transition
// believe that there's no redundancy.
unSucceed(task);
// fake increase in Uncomplete attempts for super.transition
task.inProgressAttempts.add(castEvent.getTaskAttemptID());
return super.transition(task, event);
}

@Override
protected TaskStateInternal getDefaultState(TaskImpl task) {
    return TaskStateInternal.SCHEDULED;
}
}

private static class RetroactiveKilledTransition implements
MultipleArcTransition<TaskImpl, TaskEvent, TaskStateInternal> {

@Override
public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
    TaskAttemptId attemptId = null;
    if (event instanceof TaskTAttemptEvent) {
        TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
        attemptId = castEvent.getTaskAttemptID();
        if (task.getInternalState() == TaskStateInternal.SUCCEEDED &&
            !attemptId.equals(task.successfulAttempt)) {
            // don't allow a different task attempt to override a previous
            // succeeded state
            task.finishedAttempts.add(castEvent.getTaskAttemptID());
            task.inProgressAttempts.remove(castEvent.getTaskAttemptID());
            return TaskStateInternal.SUCCEEDED;
        }
    }
}
}

// a successful REDUCE task should not be overridden
// TODO: consider moving it to MapTaskImpl

```

```

if (!TaskType.MAP.equals(task.getType())) {
    LOG.error("Unexpected event for REDUCE task " + event.getType());
    task.internalError(event.getType());
}

// successful attempt is now killed. reschedule
// tell the job about the rescheduling
unSucceed(task);
task.handleTaskAttemptCompletion(attemptId,
    TaskAttemptCompletionEventStatus.KILLED);
task.eventHandler.handle(new JobMapTaskRescheduledEvent(task.taskId));
// typically we are here because this map task was run on a bad node and
// we want to reschedule it on a different node.
// Depending on whether there are previous failed attempts or not this
// can SCHEDULE or RESCHEDULE the container allocate request. If this
// SCHEDULE's then the dataLocal hosts of this taskAttempt will be used
// from the map splitInfo. So the bad node might be sent as a location
// to the RM. But the RM would ignore that just like it would ignore
// currently pending container requests affinitized to bad nodes.
task.addAndScheduleAttempt(Avataar.VIRGIN);
return TaskStateInternal.SCHEDULED;
}
}

private static class AttemptSucceededAtSucceededTransition
implements SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
        task.finishedAttempts.add(castEvent.getTaskAttemptID());
        task.inProgressAttempts.remove(castEvent.getTaskAttemptID());
    }
}

private static class KillNewTransition
implements SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {

        if (task.historyTaskStartGenerated) {
            TaskFailedEvent taskFailedEvent = createTaskFailedEvent(task, null,
                TaskStateInternal.KILLED, null); // TODO Verify failedAttemptId is null
            task.eventHandler.handle(new JobHistoryEvent(task.taskId.getJobId(),
                taskFailedEvent));
        } else {
            LOG.debug("Not generating HistoryFinish event since start event not " +
                " generated for task: " + task.getID());
        }
    }
}

```

```

        task.eventHandler.handle(new JobTaskEvent(task.taskId,
            getExternalState(TaskStateInternal.KILLED)));
        task.metrics.endWaitingTask(task);
    }
}

private void killUnfinishedAttempt(TaskAttempt attempt, String logMsg) {
    if (attempt != null && !attempt.isFinished()) {
        eventHandler.handle(
            new TaskAttemptEvent(attempt.getID(),
                TaskAttemptEventType.TA_KILL));
    }
}

private static class KillTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        // issue kill to all non finished attempts
        for (TaskAttempt attempt : task.attempts.values()) {
            task.killUnfinishedAttempt
                (attempt, "Task KILL is received. Killing attempt!");
        }

        task.inProgressAttempts.clear();
    }
}

static class LaunchTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        task.metrics.launchedTask(task);
        task.metrics.runningTask(task);
    }
}

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```

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- \*/

```
package org.apache.hadoop.mapreduce.v2.app.job.impl;
```

```
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.EnumSet;
import java.util.HashMap;
import java.util.LinkedHashMap;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.ScheduledFuture;
import java.util.concurrent.ScheduledThreadPoolExecutor;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileContext;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.JobACLsManager;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.TaskCompletionEvent;
import org.apache.hadoop.mapreduce.Counters;
import org.apache.hadoop.mapreduce.JobACL;
import org.apache.hadoop.mapreduce.JobContext;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.OutputCommitter;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.jobhistory.JobFinishedEvent;
```

```

import org.apache.hadoop.mapreduce.jobhistory.JobHistoryEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobHistoryParser.TaskInfo;
import org.apache.hadoop.mapreduce.jobhistory.JobInfoChangeEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobInitedEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobSubmittedEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobUnsuccessfulCompletionEvent;
import org.apache.hadoop.mapreduce.lib.chain.ChainMapper;
import org.apache.hadoop.mapreduce.lib.chain.ChainReducer;
import org.apache.hadoop.mapreduce.security.TokenCache;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.security.token.JobTokenSecretManager;
import org.apache.hadoop.mapreduce.split.JobSplit.TaskSplitMetaInfo;
import org.apache.hadoop.mapreduce.split.SplitMetaInfoReader;
import org.apache.hadoop.mapreduce.task.JobContextImpl;
import org.apache.hadoop.mapreduce.v2.api.records.AMInfo;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.JobReport;
import org.apache.hadoop.mapreduce.v2.api.records.JobState;
import org.apache.hadoop.mapreduce.v2.api.records.Phase;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEvent;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEventStatus;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskState;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.commit.CommitterJobAbortEvent;
import org.apache.hadoop.mapreduce.v2.app.commit.CommitterJobCommitEvent;
import org.apache.hadoop.mapreduce.v2.app.commit.CommitterJobSetupEvent;
import org.apache.hadoop.mapreduce.v2.app.job.JobStateInternal;
import org.apache.hadoop.mapreduce.v2.app.job.Task;
import org.apache.hadoop.mapreduce.v2.app.job.TaskAttempt;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobAbortCompletedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobCommitFailedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobCounterUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobFinishEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobSetupFailedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobStartEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobTaskAttemptCompletedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobTaskAttemptFetchFailureEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobTaskEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobUpdatedNodesEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEventType;

```

```

import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptKillEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskRecoverEvent;
import org.apache.hadoop.mapreduce.v2.app.metrics.MRAppMetrics;
import org.apache.hadoop.mapreduce.v2.util.MRApps;
import org.apache.hadoop.mapreduce.v2.util.MRBuilderUtils;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.security.authorize.AccessControlList;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.util.StringUtils;
import org.apache.hadoop.yarn.api.records.ApplicationAttemptId;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.api.records.NodeReport;
import org.apache.hadoop.yarn.api.records.NodeState;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.state.InvalidStateTransitionException;
import org.apache.hadoop.yarn.state.MultipleArcTransition;
import org.apache.hadoop.yarn.state.SingleArcTransition;
import org.apache.hadoop.yarn.state.StateMachine;
import org.apache.hadoop.yarn.state.StateMachineFactory;
import org.apache.hadoop.yarn.util.Clock;

/** Implementation of Job interface. Maintains the state machines of Job.
 * The read and write calls use ReadWriteLock for concurrency.
 */
@SuppressWarnings({ "rawtypes", "unchecked" })
public class JobImpl implements org.apache.hadoop.mapreduce.v2.app.job.Job,
    EventHandler<JobEvent> {

    private static final TaskAttemptCompletionEvent[]
        EMPTY_TASK_ATTEMPT_COMPLETION_EVENTS = new TaskAttemptCompletionEvent[0];

    private static final TaskCompletionEvent[]
        EMPTY_TASK_COMPLETION_EVENTS = new TaskCompletionEvent[0];

    private static final Log LOG = LogFactory.getLog(JobImpl.class);

    //The maximum fraction of fetch failures allowed for a map
    private static final double MAX_ALLOWED_FETCH_FAILURES_FRACTION = 0.5;

    // Maximum no. of fetch-failure notifications after which map task is failed
    private static final int MAX_FETCH_FAILURES_NOTIFICATIONS = 3;

    //final fields
    private final ApplicationAttemptId applicationAttemptId;

```

```

private final Clock clock;
private final JobACLsManager acsManager;
private final String username;
private final Map<JobACL, AccessControlList> jobACLs;
private float setupWeight = 0.05f;
private float cleanupWeight = 0.05f;
private float mapWeight = 0.0f;
private float reduceWeight = 0.0f;
private final Map<TaskId, TaskInfo> completedTasksFromPreviousRun;
private final List<AMInfo> amInfos;
private final Lock readLock;
private final Lock writeLock;
private final JobId jobId;
private final String jobName;
private final OutputCommitter committer;
private final boolean newApiCommitter;
private final org.apache.hadoop.mapreduce.JobID oldJobId;
private final TaskAttemptListener taskAttemptListener;
private final Object tasksSyncHandle = new Object();
private final Set<TaskId> mapTasks = new LinkedHashSet<TaskId>();
private final Set<TaskId> reduceTasks = new LinkedHashSet<TaskId>();
/**
 * maps nodes to tasks that have run on those nodes
 */
private final HashMap<NodeId, List<TaskAttemptId>>
    nodesToSucceededTaskAttempts = new HashMap<NodeId, List<TaskAttemptId>>();

private final EventHandler eventHandler;
private final MRAppMetrics metrics;
private final String userName;
private final String queueName;
private final long appSubmitTime;
private final AppContext appContext;

private boolean lazyTasksCopyNeeded = false;
volatile Map<TaskId, Task> tasks = new LinkedHashMap<TaskId, Task>();
private Counters jobCounters = new Counters();
private Object fullCountersLock = new Object();
private Counters fullCounters = null;
private Counters finalMapCounters = null;
private Counters finalReduceCounters = null;

// FIXME:
//
// Can then replace task-level uber counters (MR-2424) with job-level ones
// sent from LocalContainerLauncher, and eventually including a count of
// of uber-AM attempts (probably sent from MRAppMaster).
public JobConf conf;

```

```

//fields initialized in init
private FileSystem fs;
private Path remoteJobSubmitDir;
public Path remoteJobConfFile;
private JobContext jobContext;
private int allowedMapFailuresPercent = 0;
private int allowedReduceFailuresPercent = 0;
private List<TaskAttemptCompletionEvent> taskAttemptCompletionEvents;
private List<TaskCompletionEvent> mapAttemptCompletionEvents;
private List<Integer> taskCompletionIdxToMapCompletionIdx;
private final List<String> diagnostics = new ArrayList<String>();

//task/attempt related datastructures
private final Map<TaskId, Integer> successAttemptCompletionEventNoMap =
    new HashMap<TaskId, Integer>();
private final Map<TaskAttemptId, Integer> fetchFailuresMapping =
    new HashMap<TaskAttemptId, Integer>();

private static final DiagnosticsUpdateTransition
    DIAGNOSTIC_UPDATE_TRANSITION = new DiagnosticsUpdateTransition();
private static final InternalErrorTransition
    INTERNAL_ERROR_TRANSITION = new InternalErrorTransition();
private static final InternalRebootTransition
    INTERNAL_REBOOT_TRANSITION = new InternalRebootTransition();
private static final TaskAttemptCompletedEventTransition
    TASK_ATTEMPT_COMPLETED_EVENT_TRANSITION =
        new TaskAttemptCompletedEventTransition();
private static final CounterUpdateTransition COUNTER_UPDATE_TRANSITION =
    new CounterUpdateTransition();
private static final UpdatedNodesTransition UPDATED_NODES_TRANSITION =
    new UpdatedNodesTransition();

protected static final
    StateMachineFactory<JobImpl, JobStateInternal, JobEventType, JobEvent>
    stateMachineFactory
    = new StateMachineFactory<JobImpl, JobStateInternal, JobEventType, JobEvent>
        (JobStateInternal.NEW)

    // Transitions from NEW state
    .addTransition(JobStateInternal.NEW, JobStateInternal.NEW,
        JobEventType.JOB_DIAGNOSTIC_UPDATE,
        DIAGNOSTIC_UPDATE_TRANSITION)
    .addTransition(JobStateInternal.NEW, JobStateInternal.NEW,
        JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
    .addTransition
        (JobStateInternal.NEW,
        EnumSet.of(JobStateInternal.INITED, JobStateInternal.FAILED),

```



```

    JobEventType.JOB_INIT,
    new InitTransition())
.addTransition(JobStateInternal.NEW, JobStateInternal.KILLED,
    JobEventType.JOB_KILL,
    new KillNewJobTransition())
.addTransition(JobStateInternal.NEW, JobStateInternal.ERROR,
    JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.NEW, JobStateInternal.REBOOT,
    JobEventType.JOB_AM_REBOOT,
    INTERNAL_REBOOT_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.NEW, JobStateInternal.NEW,
    JobEventType.JOB_UPDATED_NODES)

// Transitions from INITED state
.addTransition(JobStateInternal.INITED, JobStateInternal.INITED,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.INITED, JobStateInternal.INITED,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.INITED, JobStateInternal.SETUP,
    JobEventType.JOB_START,
    new StartTransition())
.addTransition(JobStateInternal.INITED, JobStateInternal.KILLED,
    JobEventType.JOB_KILL,
    new KillInitedJobTransition())
.addTransition(JobStateInternal.INITED, JobStateInternal.ERROR,
    JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.INITED, JobStateInternal.REBOOT,
    JobEventType.JOB_AM_REBOOT,
    INTERNAL_REBOOT_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.INITED, JobStateInternal.INITED,
    JobEventType.JOB_UPDATED_NODES)

// Transitions from SETUP state
.addTransition(JobStateInternal.SETUP, JobStateInternal.SETUP,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.SETUP, JobStateInternal.SETUP,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.SETUP, JobStateInternal.RUNNING,
    JobEventType.JOB_SETUP_COMPLETED,
    new SetupCompletedTransition())
.addTransition(JobStateInternal.SETUP, JobStateInternal.FAIL_ABORT,
    JobEventType.JOB_SETUP_FAILED,

```

```

    new SetupFailedTransition()
.addTransition(JobStateInternal.SETUP, JobStateInternal.KILL_ABORT,
    JobEventType.JOB_KILL,
    new KilledDuringSetupTransition())
.addTransition(JobStateInternal.SETUP, JobStateInternal.ERROR,
    JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.SETUP, JobStateInternal.REBOOT,
    JobEventType.JOB_AM_REBOOT,
    INTERNAL_REBOOT_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.SETUP, JobStateInternal.SETUP,
    JobEventType.JOB_UPDATED_NODES)

// Transitions from RUNNING state
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING,
    JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
    TASK_ATTEMPT_COMPLETED_EVENT_TRANSITION)
.addTransition
    (JobStateInternal.RUNNING,
    EnumSet.of(JobStateInternal.RUNNING,
        JobStateInternal.COMMITTING, JobStateInternal.FAIL_WAIT,
        JobStateInternal.FAIL_ABORT),
    JobEventType.JOB_TASK_COMPLETED,
    new TaskCompletedTransition())
.addTransition
    (JobStateInternal.RUNNING,
    EnumSet.of(JobStateInternal.RUNNING,
        JobStateInternal.COMMITTING),
    JobEventType.JOB_COMPLETED,
    new JobNoTasksCompletedTransition())
.addTransition(JobStateInternal.RUNNING, JobStateInternal.KILL_WAIT,
    JobEventType.JOB_KILL, new KillTasksTransition())
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING,
    JobEventType.JOB_UPDATED_NODES,
    UPDATED_NODES_TRANSITION)
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING,
    JobEventType.JOB_MAP_TASK_RESCHEDULED,
    new MapTaskRescheduledTransition())
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING,
    JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
    new TaskAttemptFetchFailureTransition())
.addTransition(

```

```

    JobStateInternal.RUNNING,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.RUNNING, JobStateInternal.REBOOT,
    JobEventType.JOB_AM_REBOOT,
    INTERNAL_REBOOT_TRANSITION)

// Transitions from KILL_WAIT state.
.addTransition
    (JobStateInternal.KILL_WAIT,
    EnumSet.of(JobStateInternal.KILL_WAIT,
        JobStateInternal.KILL_ABORT),
    JobEventType.JOB_TASK_COMPLETED,
    new KillWaitTaskCompletedTransition())
.addTransition(JobStateInternal.KILL_WAIT, JobStateInternal.KILL_WAIT,
    JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
    TASK_ATTEMPT_COMPLETED_EVENT_TRANSITION)
.addTransition(JobStateInternal.KILL_WAIT, JobStateInternal.KILL_WAIT,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.KILL_WAIT, JobStateInternal.KILL_WAIT,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(
    JobStateInternal.KILL_WAIT,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.KILL_WAIT, JobStateInternal.KILL_WAIT,
    EnumSet.of(JobEventType.JOB_KILL,
        JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_MAP_TASK_RESCHEDULED,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_AM_REBOOT))

// Transitions from COMMITTING state
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.SUCCEEDED,
    JobEventType.JOB_COMMIT_COMPLETED,
    new CommitSucceededTransition())
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.FAIL_ABORT,
    JobEventType.JOB_COMMIT_FAILED,
    new CommitFailedTransition())
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.KILL_ABORT,
    JobEventType.JOB_KILL,
    new KilledDuringCommitTransition())
.addTransition(JobStateInternal.COMMITTING,

```

```

    JobStateInternal.COMMITTING,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.COMMITTING,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.COMMITTING, JobStateInternal.REBOOT,
    JobEventType.JOB_AM_REBOOT,
    INTERNAL_REBOOT_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.COMMITTING,
    EnumSet.of(JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE))

// Transitions from SUCCEEDED state
.addTransition(JobStateInternal.SUCCEEDED, JobStateInternal.SUCCEEDED,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.SUCCEEDED, JobStateInternal.SUCCEEDED,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(
    JobStateInternal.SUCCEEDED,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.SUCCEEDED, JobStateInternal.SUCCEEDED,
    EnumSet.of(JobEventType.JOB_KILL,
        JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_AM_REBOOT,
        JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
        JobEventType.JOB_MAP_TASK_RESCHEDULED))

// Transitions from FAIL_WAIT state
.addTransition(JobStateInternal.FAIL_WAIT,
    JobStateInternal.FAIL_WAIT,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAIL_WAIT,
    JobStateInternal.FAIL_WAIT,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAIL_WAIT,
    EnumSet.of(JobStateInternal.FAIL_WAIT, JobStateInternal.FAIL_ABORT),
    JobEventType.JOB_TASK_COMPLETED,

```

```

    new JobFailWaitTransition())
.addTransition(JobStateInternal.FAIL_WAIT,
    JobStateInternal.FAIL_ABORT, JobEventType.JOB_FAIL_WAIT_TIMEDOUT,
    new JobFailWaitTimedOutTransition())
.addTransition(JobStateInternal.FAIL_WAIT, JobStateInternal.KILLED,
    JobEventType.JOB_KILL,
    new KilledDuringAbortTransition())
.addTransition(JobStateInternal.FAIL_WAIT,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.FAIL_WAIT,
    JobStateInternal.FAIL_WAIT,
    EnumSet.of(JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
        JobEventType.JOB_MAP_TASK_RESCHEDULED,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_AM_REBOOT))

//Transitions from FAIL_ABORT state
.addTransition(JobStateInternal.FAIL_ABORT,
    JobStateInternal.FAIL_ABORT,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAIL_ABORT,
    JobStateInternal.FAIL_ABORT,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAIL_ABORT, JobStateInternal.FAILED,
    JobEventType.JOB_ABORT_COMPLETED,
    new JobAbortCompletedTransition())
.addTransition(JobStateInternal.FAIL_ABORT, JobStateInternal.KILLED,
    JobEventType.JOB_KILL,
    new KilledDuringAbortTransition())
.addTransition(JobStateInternal.FAIL_ABORT,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.FAIL_ABORT,
    JobStateInternal.FAIL_ABORT,
    EnumSet.of(JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_COMPLETED,
        JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
        JobEventType.JOB_MAP_TASK_RESCHEDULED,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_COMMIT_COMPLETED,
        JobEventType.JOB_COMMIT_FAILED,
        JobEventType.JOB_AM_REBOOT,
        JobEventType.JOB_FAIL_WAIT_TIMEDOUT))

```

```

// Transitions from KILL_ABORT state
.addTransition(JobStateInternal.KILL_ABORT,
    JobStateInternal.KILL_ABORT,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.KILL_ABORT,
    JobStateInternal.KILL_ABORT,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.KILL_ABORT, JobStateInternal.KILLED,
    JobEventType.JOB_ABORT_COMPLETED,
    new JobAbortCompletedTransition())
.addTransition(JobStateInternal.KILL_ABORT, JobStateInternal.KILLED,
    JobEventType.JOB_KILL,
    new KilledDuringAbortTransition())
.addTransition(JobStateInternal.KILL_ABORT,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.KILL_ABORT,
    JobStateInternal.KILL_ABORT,
    EnumSet.of(JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_SETUP_COMPLETED,
        JobEventType.JOB_SETUP_FAILED,
        JobEventType.JOB_COMMIT_COMPLETED,
        JobEventType.JOB_COMMIT_FAILED,
        JobEventType.JOB_AM_REBOOT))

// Transitions from FAILED state
.addTransition(JobStateInternal.FAILED, JobStateInternal.FAILED,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAILED, JobStateInternal.FAILED,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(
    JobStateInternal.FAILED,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.FAILED, JobStateInternal.FAILED,
    EnumSet.of(JobEventType.JOB_KILL,
        JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_COMPLETED,
        JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
        JobEventType.JOB_MAP_TASK_RESCHEDULED,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_SETUP_COMPLETED,

```

```

        JobEventType.JOB_SETUP_FAILED,
        JobEventType.JOB_COMMIT_COMPLETED,
        JobEventType.JOB_COMMIT_FAILED,
        JobEventType.JOB_ABORT_COMPLETED,
        JobEventType.JOB_AM_REBOOT))

// Transitions from KILLED state
.addTransition(JobStateInternal.KILLED, JobStateInternal.KILLED,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.KILLED, JobStateInternal.KILLED,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(
    JobStateInternal.KILLED,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.KILLED, JobStateInternal.KILLED,
    EnumSet.of(JobEventType.JOB_KILL,
        JobEventType.JOB_START,
        JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_SETUP_COMPLETED,
        JobEventType.JOB_SETUP_FAILED,
        JobEventType.JOB_COMMIT_COMPLETED,
        JobEventType.JOB_COMMIT_FAILED,
        JobEventType.JOB_ABORT_COMPLETED,
        JobEventType.JOB_AM_REBOOT))

// No transitions from INTERNAL_ERROR state. Ignore all.
.addTransition(
    JobStateInternal.ERROR,
    JobStateInternal.ERROR,
    EnumSet.of(JobEventType.JOB_INIT,
        JobEventType.JOB_KILL,
        JobEventType.JOB_TASK_COMPLETED,
        JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
        JobEventType.JOB_MAP_TASK_RESCHEDULED,
        JobEventType.JOB_DIAGNOSTIC_UPDATE,
        JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_SETUP_COMPLETED,
        JobEventType.JOB_SETUP_FAILED,
        JobEventType.JOB_COMMIT_COMPLETED,
        JobEventType.JOB_COMMIT_FAILED,
        JobEventType.JOB_ABORT_COMPLETED,
        JobEventType.INTERNAL_ERROR,
        JobEventType.JOB_AM_REBOOT))

```

```

.addTransition(JobStateInternal.ERROR, JobStateInternal.ERROR,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)

// No transitions from AM_REBOOT state. Ignore all.
.addTransition(
    JobStateInternal.REBOOT,
    JobStateInternal.REBOOT,
    EnumSet.of(JobEventType.JOB_INIT,
        JobEventType.JOB_KILL,
        JobEventType.JOB_TASK_COMPLETED,
        JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
        JobEventType.JOB_MAP_TASK_RESCHEDULED,
        JobEventType.JOB_DIAGNOSTIC_UPDATE,
        JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_SETUP_COMPLETED,
        JobEventType.JOB_SETUP_FAILED,
        JobEventType.JOB_COMMIT_COMPLETED,
        JobEventType.JOB_COMMIT_FAILED,
        JobEventType.JOB_ABORT_COMPLETED,
        JobEventType.INTERNAL_ERROR,
        JobEventType.JOB_AM_REBOOT))
.addTransition(JobStateInternal.REBOOT, JobStateInternal.REBOOT,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)

// create the topology tables
.installTopology();

private final StateMachine<JobStateInternal, JobEventType, JobEvent> stateMachine;

//changing fields while the job is running
private int numMapTasks;
private int numReduceTasks;
private int completedTaskCount = 0;
private int succeededMapTaskCount = 0;
private int succeededReduceTaskCount = 0;
private int failedMapTaskCount = 0;
private int failedReduceTaskCount = 0;
private int killedMapTaskCount = 0;
private int killedReduceTaskCount = 0;
private long startTime;
private long finishTime;
private float setupProgress;
private float mapProgress;
private float reduceProgress;
private float cleanupProgress;
private boolean isUber = false;

```



```

private Credentials jobCredentials;
private Token<JobTokenIdentifier> jobToken;
private JobTokenSecretManager jobTokenSecretManager;

private JobStateInternal forcedState = null;

//Executor used for running future tasks. Setting thread pool size to 1
private ScheduledThreadPoolExecutor executor = new ScheduledThreadPoolExecutor(1);
private ScheduledFuture failWaitTriggerScheduledFuture;

private JobState lastNonFinalState = JobState.NEW;

public JobImpl(JobId jobId, ApplicationAttemptId applicationAttemptId,
    Configuration conf, EventHandler eventHandler,
    TaskAttemptListener taskAttemptListener,
    JobTokenSecretManager jobTokenSecretManager,
    Credentials jobCredentials, Clock clock,
    Map<TaskId, TaskInfo> completedTasksFromPreviousRun, MRAppMetrics metrics,
    OutputCommitter committer, boolean newApiCommitter, String userName,
    long appSubmitTime, List<AMInfo> amInfos, AppContext appContext,
    JobStateInternal forcedState, String forcedDiagnostic) {
    this.applicationAttemptId = applicationAttemptId;
    this.jobId = jobId;
    this.jobName = conf.get(JobContext.JOB_NAME, "<missing job name>");
    this.conf = new JobConf(conf);
    this.metrics = metrics;
    this.clock = clock;
    this.completedTasksFromPreviousRun = completedTasksFromPreviousRun;
    this.amInfos = amInfos;
    this.appContext = appContext;
    this.userName = userName;
    this.queueName = conf.get(MRJobConfig.QUEUE_NAME, "default");
    this.appSubmitTime = appSubmitTime;
    this.oldJobId = TypeConverter.fromYarn(jobId);
    this.committer = committer;
    this.newApiCommitter = newApiCommitter;

    this.taskAttemptListener = taskAttemptListener;
    this.eventHandler = eventHandler;
    ReadWriteLock readWriteLock = new ReentrantReadWriteLock();
    this.readLock = readWriteLock.readLock();
    this.writeLock = readWriteLock.writeLock();

    this.jobCredentials = jobCredentials;
    this.jobTokenSecretManager = jobTokenSecretManager;

    this.aclsManager = new JobACLsManager(conf);
    this.username = System.getProperty("user.name");

```

```

this.jobACLs = aclsManager.constructJobACLs(conf);
// This "this leak" is okay because the retained pointer is in an
// instance variable.
stateMachine = stateMachineFactory.make(this);
this.forcedState = forcedState;
if(forcedDiagnostic != null) {
    this.diagnostics.add(forcedDiagnostic);
}
}

protected StateMachine<JobStateInternal, JobEventType, JobEvent> getStateMachine() {
    return stateMachine;
}

@Override
public JobId getID() {
    return jobId;
}

EventHandler getEventHandler() {
    return this.eventHandler;
}

JobContext getJobContext() {
    return this.jobContext;
}

@Override
public boolean checkAccess(UserGroupInformation callerUGI,
    JobACL jobOperation) {
    AccessControlList jobACL = jobACLs.get(jobOperation);
    if (jobACL == null) {
        return true;
    }
    return aclsManager.checkAccess(callerUGI, jobOperation, username, jobACL);
}

@Override
public Task getTask(TaskId taskID) {
    readLock.lock();
    try {
        return tasks.get(taskID);
    } finally {
        readLock.unlock();
    }
}

@Override

```

```

public int getCompletedMaps() {
    readLock.lock();
    try {
        return succeededMapTaskCount + failedMapTaskCount + killedMapTaskCount;
    } finally {
        readLock.unlock();
    }
}

@Override
public int getCompletedReduces() {
    readLock.lock();
    try {
        return succeededReduceTaskCount + failedReduceTaskCount
            + killedReduceTaskCount;
    } finally {
        readLock.unlock();
    }
}

@Override
public boolean isUber() {
    return isUber;
}

@Override
public Counters getAllCounters() {

    readLock.lock();

    try {
        JobStateInternal state = getInternalState();
        if (state == JobStateInternal.ERROR || state == JobStateInternal.FAILED
            || state == JobStateInternal.KILLED || state == JobStateInternal.SUCCEEDED) {
            this.maybeConstructFinalFullCounters();
            return fullCounters;
        }

        Counters counters = new Counters();
        counters.incrAllCounters(jobCounters);
        return incrTaskCounters(counters, tasks.values());

    } finally {
        readLock.unlock();
    }
}

public static Counters incrTaskCounters(

```

```

    Counters counters, Collection<Task> tasks) {
    for (Task task : tasks) {
        counters.incrAllCounters(task.getCounters());
    }
    return counters;
}

@Override
public TaskAttemptCompletionEvent[] getTaskAttemptCompletionEvents(
    int fromEventId, int maxEvents) {
    TaskAttemptCompletionEvent[] events = EMPTY_TASK_ATTEMPT_COMPLETION_EVENTS;
    readLock.lock();
    try {
        if (taskAttemptCompletionEvents.size() > fromEventId) {
            int actualMax = Math.min(maxEvents,
                (taskAttemptCompletionEvents.size() - fromEventId));
            events = taskAttemptCompletionEvents.subList(fromEventId,
                actualMax + fromEventId).toArray(events);
        }
        return events;
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskCompletionEvent[] getMapAttemptCompletionEvents(
    int startIndex, int maxEvents) {
    TaskCompletionEvent[] events = EMPTY_TASK_COMPLETION_EVENTS;
    readLock.lock();
    try {
        if (mapAttemptCompletionEvents.size() > startIndex) {
            int actualMax = Math.min(maxEvents,
                (mapAttemptCompletionEvents.size() - startIndex));
            events = mapAttemptCompletionEvents.subList(startIndex,
                actualMax + startIndex).toArray(events);
        }
        return events;
    } finally {
        readLock.unlock();
    }
}

@Override
public List<String> getDiagnostics() {
    readLock.lock();
    try {
        return diagnostics;
    }
}

```

```

    } finally {
        readLock.unlock();
    }
}

@Override
public JobReport getReport() {
    readLock.lock();
    try {
        JobState state = getState();

        // jobFile can be null if the job is not yet inited.
        String jobFile =
            remoteJobConfFile == null ? "" : remoteJobConfFile.toString();

        StringBuilder diagsb = new StringBuilder();
        for (String s : getDiagnostics()) {
            diagsb.append(s).append("\n");
        }

        if (getInternalState() == JobStateInternal.NEW) {
            return MRBuilderUtils.newJobReport(jobId, jobName, username, state,
                appSubmitTime, startTime, finishTime, setupProgress, 0.0f, 0.0f,
                cleanupProgress, jobFile, amInfos, isUber, diagsb.toString());
        }

        computeProgress();
        JobReport report = MRBuilderUtils.newJobReport(jobId, jobName, username,
            state, appSubmitTime, startTime, finishTime, setupProgress,
            this.mapProgress, this.reduceProgress,
            cleanupProgress, jobFile, amInfos, isUber, diagsb.toString());
        return report;
    } finally {
        readLock.unlock();
    }
}

@Override
public float getProgress() {
    this.readLock.lock();
    try {
        computeProgress();
        return (this.setupProgress * this.setupWeight + this.cleanupProgress
            * this.cleanupWeight + this.mapProgress * this.mapWeight + this.reduceProgress
            * this.reduceWeight);
    } finally {
        this.readLock.unlock();
    }
}

```

```

}

private void computeProgress() {
    this.readLock.lock();
    try {
        float mapProgress = 0f;
        float reduceProgress = 0f;
        for (Task task : this.tasks.values()) {
            if (task.getType() == TaskType.MAP) {
                mapProgress += (task.isFinished() ? 1f : task.getProgress());
            } else {
                reduceProgress += (task.isFinished() ? 1f : task.getProgress());
            }
        }
    }
    if (this.numMapTasks != 0) {
        mapProgress = mapProgress / this.numMapTasks;
    }
    if (this.numReduceTasks != 0) {
        reduceProgress = reduceProgress / this.numReduceTasks;
    }
    this.mapProgress = mapProgress;
    this.reduceProgress = reduceProgress;
} finally {
    this.readLock.unlock();
}
}

```

```

@Override
public Map<TaskId, Task> getTasks() {
    synchronized (tasksSyncHandle) {
        lazyTasksCopyNeeded = true;
        return Collections.unmodifiableMap(tasks);
    }
}

```

```

@Override
public Map<TaskId, Task> getTasks(TaskType taskType) {
    Map<TaskId, Task> localTasksCopy = tasks;
    Map<TaskId, Task> result = new HashMap<TaskId, Task>();
    Set<TaskId> tasksOfGivenType = null;
    readLock.lock();
    try {
        if (TaskType.MAP == taskType) {
            tasksOfGivenType = mapTasks;
        } else {
            tasksOfGivenType = reduceTasks;
        }
    }
    for (TaskId taskID : tasksOfGivenType)

```

```

        result.put(taskID, localTasksCopy.get(taskID));
        return result;
    } finally {
        readLock.unlock();
    }
}

@Override
public JobState getState() {
    readLock.lock();
    try {
        JobState state = getExternalState(getInternalState());
        if (!appContext.hasSuccessfullyUnregistered()
            && (state == JobState.SUCCEEDED || state == JobState.FAILED
                || state == JobState.KILLED || state == JobState.ERROR)) {
            return lastNonFinalState;
        } else {
            return state;
        }
    } finally {
        readLock.unlock();
    }
}

protected void scheduleTasks(Set<TaskId> taskIDs,
    boolean recoverTaskOutput) {
    for (TaskId taskID : taskIDs) {
        TaskInfo taskInfo = completedTasksFromPreviousRun.remove(taskID);
        if (taskInfo != null) {
            eventHandler.handle(new TaskRecoverEvent(taskID, taskInfo,
                committer, recoverTaskOutput));
        } else {
            eventHandler.handle(new TaskEvent(taskID, TaskEventType.T_SCHEDULE));
        }
    }
}

@Override
/**
 * The only entry point to change the Job.
 */
public void handle(JobEvent event) {
    if (LOG.isDebugEnabled()) {
        LOG.debug("Processing " + event.getJobId() + " of type "
            + event.getType());
    }
    try {
        writeLock.lock();

```

```

JobStateInternal oldState = getInternalState();
try {
    getStateMachine().doTransition(event.getType(), event);
} catch (InvalidStateTransitionException e) {
    LOG.error("Can't handle this event at current state", e);
    addDiagnostic("Invalid event " + event.getType() +
        " on Job " + this.jobId);
    eventHandler.handle(new JobEvent(this.jobId,
        JobEventType.INTERNAL_ERROR));
}
//notify the eventhandler of state change
if (oldState != getInternalState()) {
    LOG.info(jobId + "Job Transitioned from " + oldState + " to "
        + getInternalState());
    rememberLastNonFinalState(oldState);
}
}

finally {
    writeLock.unlock();
}
}

private void rememberLastNonFinalState(JobStateInternal stateInternal) {
    JobState state = getExternalState(stateInternal);
    // if state is not the final state, set lastNonFinalState
    if (state != JobState.SUCCEEDED && state != JobState.FAILED
        && state != JobState.KILLED && state != JobState.ERROR) {
        lastNonFinalState = state;
    }
}

@Private
public JobStateInternal getInternalState() {
    readLock.lock();
    try {
        if(forcedState != null) {
            return forcedState;
        }
        return getStateMachine().getCurrentState();
    } finally {
        readLock.unlock();
    }
}

private JobState getExternalState(JobStateInternal smState) {
    switch (smState) {
        case KILL_WAIT:

```



```

case KILL_ABORT:
    return JobState.KILLED;
case SETUP:
case COMMITTING:
    return JobState.RUNNING;
case FAIL_WAIT:
case FAIL_ABORT:
    return JobState.FAILED;
case REBOOT:
    if (appContext.isLastAMRetry()) {
        return JobState.ERROR;
    } else {
        // In case of not last retry, return the external state as RUNNING since
        // otherwise JobClient will exit when it polls the AM for job state
        return JobState.RUNNING;
    }
default:
    return JobState.valueOf(smState.name());
}
}

//helpful in testing
protected void addTask(Task task) {
    synchronized (tasksSyncHandle) {
        if (lazyTasksCopyNeeded) {
            Map<TaskId, Task> newTasks = new LinkedHashMap<TaskId, Task>();
            newTasks.putAll(tasks);
            tasks = newTasks;
            lazyTasksCopyNeeded = false;
        }
    }
    tasks.put(task.getID(), task);
    if (task.getType() == TaskType.MAP) {
        mapTasks.add(task.getID());
    } else if (task.getType() == TaskType.REDUCE) {
        reduceTasks.add(task.getID());
    }
    metrics.waitingTask(task);
}

void setFinishTime() {
    finishTime = clock.getTime();
}

void logJobHistoryFinishedEvent() {
    this.setFinishTime();
    JobFinishedEvent jfe = createJobFinishedEvent(this);
}

```

```

LOG.info("Calling handler for JobFinishedEvent ");
this.getEventHandler().handle(new JobHistoryEvent(this.jobId, jfe));
}

/**
 * Create the default file System for this job.
 * @param conf the conf object
 * @return the default filesystem for this job
 * @throws IOException
 */
protected FileSystem getFileSystem(Configuration conf) throws IOException {
    return FileSystem.get(conf);
}

protected JobStateInternal checkReadyForCommit() {
    JobStateInternal currentState = getInternalState();
    if (completedTaskCount == tasks.size()
        && currentState == JobStateInternal.RUNNING) {
        eventHandler.handle(new CommitterJobCommitEvent(jobId, getJobContext()));
        return JobStateInternal.COMMITTING;
    }
    // return the current state as job not ready to commit yet
    return getInternalState();
}

JobStateInternal finished(JobStateInternal finalState) {
    if (getInternalState() == JobStateInternal.RUNNING) {
        metrics.endRunningJob(this);
    }
    if (finishTime == 0) setFinishTime();
    eventHandler.handle(new JobFinishEvent(jobId));

    switch (finalState) {
        case KILLED:
            metrics.killedJob(this);
            break;
        case REBOOT:
        case ERROR:
        case FAILED:
            metrics.failedJob(this);
            break;
        case SUCCEEDED:
            metrics.completedJob(this);
            break;
        default:
            throw new IllegalArgumentException("Illegal job state: " + finalState);
    }
    return finalState;
}

```

```

}

@Override
public String getUsername() {
    return userName;
}

@Override
public String getQueueName() {
    return queueName;
}

/*
 * (non-Javadoc)
 * @see org.apache.hadoop.mapreduce.v2.app.job.Job#getConfFile()
 */
@Override
public Path getConfFile() {
    return remoteJobConfFile;
}

@Override
public String getName() {
    return jobName;
}

@Override
public int getTotalMaps() {
    return mapTasks.size(); //FIXME: why indirection? return numMapTasks...
        // unless race? how soon can this get called?
}

@Override
public int getTotalReduces() {
    return reduceTasks.size(); //FIXME: why indirection? return numReduceTasks
}

/*
 * (non-Javadoc)
 * @see org.apache.hadoop.mapreduce.v2.app.job.Job#getJobACLs()
 */
@Override
public Map<JobACL, AccessControlList> getJobACLs() {
    return Collections.unmodifiableMap(jobACLs);
}

@Override
public List<AMInfo> getAMInfos() {

```

```

return amInfos;
}

/**
 * Decide whether job can be run in uber mode based on various criteria.
 * @param dataInputLength Total length for all splits
 */
private void makeUberDecision(long dataInputLength) {
    //FIXME: need new memory criterion for uber-decision (oops, too late here;
    // until AM-resizing supported,
    // must depend on job client to pass fat-slot needs)
    // these are no longer "system" settings, necessarily; user may override
    int sysMaxMaps = conf.getInt(MRJobConfig.JOB_UBERTASK_MAXMAPS, 9);

    //FIXME: handling multiple reduces within a single AM does not seem to
    //work.
    int sysMaxReduces = conf.getInt(MRJobConfig.JOB_UBERTASK_MAXREDUCES, 1);
    boolean isValidUberMaxReduces = (sysMaxReduces == 0)
        || (sysMaxReduces == 1);

    long sysMaxBytes = conf.getLong(MRJobConfig.JOB_UBERTASK_MAXBYTES,
        fs.getDefaultBlockSize(this.remoteJobSubmitDir)); // FIXME: this is wrong; get FS from
        // [File?]InputFormat and default block size
        // from that

    long sysMemSizeForUberSlot =
        conf.getInt(MRJobConfig.MR_AM_VMEM_MB,
            MRJobConfig.DEFAULT_MR_AM_VMEM_MB);

    long sysCpuSizeForUberSlot =
        conf.getInt(MRJobConfig.MR_AM_CPU_VCORES,
            MRJobConfig.DEFAULT_MR_AM_CPU_VCORES);

    boolean uberEnabled =
        conf.getBoolean(MRJobConfig.JOB_UBERTASK_ENABLE, false);
    boolean smallNumMapTasks = (numMapTasks <= sysMaxMaps);
    boolean smallNumReduceTasks = (numReduceTasks <= sysMaxReduces);
    boolean smallInput = (dataInputLength <= sysMaxBytes);
    // ignoring overhead due to UberAM and statics as negligible here:
    boolean smallMemory =
        ( (Math.max(conf.getLong(MRJobConfig.MAP_MEMORY_MB, 0),
            conf.getLong(MRJobConfig.REDUCE_MEMORY_MB, 0))
            <= sysMemSizeForUberSlot)
            || (sysMemSizeForUberSlot == JobConf.DISABLED_MEMORY_LIMIT));
    boolean smallCpu =
        (
            Math.max(
                conf.getInt(

```

```

        MRJobConfig.MAP_CPU_VCORES,
        MRJobConfig.DEFAULT_MAP_CPU_VCORES),
    conf.getInt(
        MRJobConfig.REDUCE_CPU_VCORES,
        MRJobConfig.DEFAULT_REDUCE_CPU_VCORES))
    <= sysCPUSizeForUberSlot
    );
boolean notChainJob = !isChainJob(conf);

// User has overall veto power over uberization, or user can modify
// limits (overriding system settings and potentially shooting
// themselves in the head). Note that ChainMapper/Reducer are
// fundamentally incompatible with MR-1220; they employ a blocking
// queue between the maps/reduces and thus require parallel execution,
// while "uber-AM" (MR AM + LocalContainerLauncher) loops over tasks
// and thus requires sequential execution.
isUber = uberEnabled && smallNumMapTasks && smallNumReduceTasks
    && smallInput && smallMemory && smallCpu
    && notChainJob && isValidUberMaxReduces;

if (isUber) {
    LOG.info("Uberizing job " + jobId + ": " + numMapTasks + "m+"
        + numReduceTasks + "r tasks (" + dataInputLength
        + " input bytes) will run sequentially on single node.");

    // make sure reduces are scheduled only after all map are completed
    conf.setFloat(MRJobConfig.COMPLETED_MAPS_FOR_REDUCE_SLOWSTART,
        1.0f);
    // uber-subtask attempts all get launched on same node; if one fails,
    // probably should retry elsewhere, i.e., move entire uber-AM: ergo,
    // limit attempts to 1 (or at most 2? probably not...)
    conf.setInt(MRJobConfig.MAP_MAX_ATTEMPTS, 1);
    conf.setInt(MRJobConfig.REDUCE_MAX_ATTEMPTS, 1);

    // disable speculation
    conf.setBoolean(MRJobConfig.MAP_SPECULATIVE, false);
    conf.setBoolean(MRJobConfig.REDUCE_SPECULATIVE, false);
} else {
    StringBuilder msg = new StringBuilder();
    msg.append("Not uberizing ").append(jobId).append(" because:");
    if (!uberEnabled)
        msg.append(" not enabled;");
    if (!smallNumMapTasks)
        msg.append(" too many maps;");
    if (!smallNumReduceTasks)
        msg.append(" too many reduces;");
    if (!smallInput)
        msg.append(" too much input;");
}

```

```

    if (!smallMemory)
        msg.append(" too much RAM;");
    if (!notChainJob)
        msg.append(" chainjob;");
    if (!isValidUberMaxReduces)
        msg.append(" not supported uber max reduces");
    LOG.info(msg.toString());
}
}

/**
 * ChainMapper and ChainReducer must execute in parallel, so they're not
 * compatible with uberization/LocalContainerLauncher (100% sequential).
 */
private boolean isChainJob(Configuration conf) {
    boolean isChainJob = false;
    try {
        String mapClassName = conf.get(MRJobConfig.MAP_CLASS_ATTR);
        if (mapClassName != null) {
            Class<?> mapClass = Class.forName(mapClassName);
            if (ChainMapper.class.isAssignableFrom(mapClass))
                isChainJob = true;
        }
    } catch (ClassNotFoundException cnfe) {
        // don't care; assume it's not derived from ChainMapper
    }
    try {
        String reduceClassName = conf.get(MRJobConfig.REDUCE_CLASS_ATTR);
        if (reduceClassName != null) {
            Class<?> reduceClass = Class.forName(reduceClassName);
            if (ChainReducer.class.isAssignableFrom(reduceClass))
                isChainJob = true;
        }
    } catch (ClassNotFoundException cnfe) {
        // don't care; assume it's not derived from ChainReducer
    }
    return isChainJob;
}

private void actOnUnusableNode(NodeId nodeId, NodeState nodeState) {
    // rerun previously successful map tasks
    List<TaskAttemptId> taskAttemptIdList = nodesToSucceededTaskAttempts.get(nodeId);
    if (taskAttemptIdList != null) {
        String msg = "TaskAttempt killed because it ran on unusable node "
            + nodeId;
        for (TaskAttemptId id : taskAttemptIdList) {
            if (TaskType.MAP == id.getTaskId().getTaskType()) {
                // reschedule only map tasks because their outputs maybe unusable
            }
        }
    }
}

```

```

        LOG.info(msg + ". AttemptId:" + id);
        eventHandler.handle(new TaskAttemptKillEvent(id, msg));
    }
}
// currently running task attempts on unusable nodes are handled in
// RMContainerAllocator
}

/*
private int getBlockSize() {
    String inputClassName = conf.get(MRJobConfig.INPUT_FORMAT_CLASS_ATTR);
    if (inputClassName != null) {
        Class<?> inputClass = Class.forName(inputClassName);
        if (FileInputFormat<K, V>)
    }
}
*/
/**
 * Get the workflow adjacencies from the job conf
 * The string returned is of the form "key"="value" "key"="value" ...
 */
private static String getWorkflowAdjacencies(Configuration conf) {
    int prefixLen = MRJobConfig.WORKFLOW_ADJACENCY_PREFIX_STRING.length();
    Map<String,String> adjacencies =
        conf.getValByRegex(MRJobConfig.WORKFLOW_ADJACENCY_PREFIX_PATTERN);
    if (adjacencies.isEmpty()) {
        return "";
    }
    int size = 0;
    for (Entry<String,String> entry : adjacencies.entrySet()) {
        int keyLen = entry.getKey().length();
        size += keyLen - prefixLen;
        size += entry.getValue().length() + 6;
    }
    StringBuilder sb = new StringBuilder(size);
    for (Entry<String,String> entry : adjacencies.entrySet()) {
        int keyLen = entry.getKey().length();
        sb.append("\"");
        sb.append(escapeString(entry.getKey().substring(prefixLen, keyLen)));
        sb.append("\"=");
        sb.append(escapeString(entry.getValue()));
        sb.append("\" ");
    }
    return sb.toString();
}

public static String escapeString(String data) {

```

```

return StringUtils.escapeString(data, StringUtils.ESCAPE_CHAR,
    new char[] { '"', '=', '.' });
}

public static class InitTransition
    implements MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> {

/**
 * Note that this transition method is called directly (and synchronously)
 * by MRAppMaster's init() method (i.e., no RPC, no thread-switching;
 * just plain sequential call within AM context), so we can trigger
 * modifications in AM state from here (at least, if AM is written that
 * way; MR version is).
 */
@Override
public JobStateInternal transition(JobImpl job, JobEvent event) {
    job.metrics.submittedJob(job);
    job.metrics.preparingJob(job);
    try {
        setup(job);
        job.fs = job.getFileSystem(job.conf);

        //log to job history
        JobSubmittedEvent jse = new JobSubmittedEvent(job.oldJobId,
            job.conf.get(MRJobConfig.JOB_NAME, "test"),
            job.conf.get(MRJobConfig.USER_NAME, "mapred"),
            job.appSubmitTime,
            job.remoteJobConfFile.toString(),
            job.jobACLs, job.queueName,
            job.conf.get(MRJobConfig.WORKFLOW_ID, ""),
            job.conf.get(MRJobConfig.WORKFLOW_NAME, ""),
            job.conf.get(MRJobConfig.WORKFLOW_NODE_NAME, ""),
            getWorkflowAdjacencies(job.conf),
            job.conf.get(MRJobConfig.WORKFLOW_TAGS, ""));
        job.eventHandler.handle(new JobHistoryEvent(job.jobId, jse));
        //TODO JH Verify jobACLs, UserName via UGI?

        TaskSplitMetaInfo[] taskSplitMetaInfo = createSplits(job, job.jobId);
        job.numMapTasks = taskSplitMetaInfo.length;
        job.numReduceTasks = job.conf.getInt(MRJobConfig.NUM_REDUCES, 0);

        if (job.numMapTasks == 0 && job.numReduceTasks == 0) {
            job.addDiagnostic("No of maps and reduces are 0 " + job.jobId);
        } else if (job.numMapTasks == 0) {
            job.reduceWeight = 0.9f;
        } else if (job.numReduceTasks == 0) {
            job.mapWeight = 0.9f;
        } else {

```



```

    job.mapWeight = job.reduceWeight = 0.45f;
}

checkTaskLimits();

if (job.newApiCommitter) {
    job.jobContext = new JobContextImpl(job.conf,
        job.oldJobId);
} else {
    job.jobContext = new org.apache.hadoop.mapred.JobContextImpl(
        job.conf, job.oldJobId);
}

long inputLength = 0;
for (int i = 0; i < job.numMapTasks; ++i) {
    inputLength += taskSplitMetaInfo[i].getInputDataLength();
}

job.makeUberDecision(inputLength);

job.taskAttemptCompletionEvents =
    new ArrayList<TaskAttemptCompletionEvent>(
        job.numMapTasks + job.numReduceTasks + 10);
job.mapAttemptCompletionEvents =
    new ArrayList<TaskCompletionEvent>(job.numMapTasks + 10);
job.taskCompletionIdxToMapCompletionIdx = new ArrayList<Integer>(
    job.numMapTasks + job.numReduceTasks + 10);

job.allowedMapFailuresPercent =
    job.conf.getInt(MRJobConfig.MAP_FAILURES_MAX_PERCENT, 0);
job.allowedReduceFailuresPercent =
    job.conf.getInt(MRJobConfig.REDUCE_FAILURES_MAXPERCENT, 0);

// create the Tasks but don't start them yet
createMapTasks(job, inputLength, taskSplitMetaInfo);
createReduceTasks(job);

job.metrics.endPreparingJob(job);
return JobStateInternal.INITED;
} catch (IOException e) {
    LOG.warn("Job init failed", e);
    job.metrics.endPreparingJob(job);
    job.addDiagnostic("Job init failed : "
        + StringUtils.stringifyException(e));
    job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
        job.jobContext,
        org.apache.hadoop.mapreduce.JobStatus.State.FAILED));
    return JobStateInternal.FAILED;
}

```

```

    }
}

protected void setup(JobImpl job) throws IOException {

    String oldJobIDString = job.oldJobId.toString();
    String user =
        UserGroupInformation.getCurrentUser().getShortUserName();
    Path path = MRApps.getStagingAreaDir(job.conf, user);
    if(LOG.isDebugEnabled()) {
        LOG.debug("startJobs: parent=" + path + " child=" + oldJobIDString);
    }

    job.remoteJobSubmitDir =
        FileSystem.get(job.conf).makeQualified(
            new Path(path, oldJobIDString));
    job.remoteJobConfFile =
        new Path(job.remoteJobSubmitDir, MRJobConfig.JOB_CONF_FILE);

    // Prepare the TaskAttemptListener server for authentication of Containers
    // TaskAttemptListener gets the information via jobTokenSecretManager.
    JobTokenIdentifier identifier =
        new JobTokenIdentifier(new Text(oldJobIDString));
    job.jobToken =
        new Token<JobTokenIdentifier>(identifier, job.jobTokenSecretManager);
    job.jobToken.setService(identifier.getJobId());
    // Add it to the jobTokenSecretManager so that TaskAttemptListener server
    // can authenticate containers(tasks)
    job.jobTokenSecretManager.addTokenForJob(oldJobIDString, job.jobToken);
    LOG.info("Adding job token for " + oldJobIDString
        + " to jobTokenSecretManager");

    // If the job client did not setup the shuffle secret then reuse
    // the job token secret for the shuffle.
    if (TokenCache.getShuffleSecretKey(job.jobCredentials) == null) {
        LOG.warn("Shuffle secret key missing from job credentials."
            + " Using job token secret as shuffle secret.");
        TokenCache.setShuffleSecretKey(job.jobToken.getPassword(),
            job.jobCredentials);
    }
}

private void createMapTasks(JobImpl job, long inputLength,
    TaskSplitMetaInfo[] splits) {
    for (int i=0; i < job.numMapTasks; ++i) {
        TaskImpl task =
            new MapTaskImpl(job.jobId, i,
                job.eventHandler,

```

```

        job.remoteJobConfFile,
        job.conf, splits[i],
        job.taskAttemptListener,
        job.jobToken, job.jobCredentials,
        job.clock,
        job.applicationAttemptId.getAttemptId(),
        job.metrics, job.appContext);
    job.addTask(task);
}
LOG.info("Input size for job " + job.jobId + " = " + inputLength
    + ". Number of splits = " + splits.length);
}

private void createReduceTasks(JobImpl job) {
    for (int i = 0; i < job.numReduceTasks; i++) {
        TaskImpl task =
            new ReduceTaskImpl(job.jobId, i,
                job.eventHandler,
                job.remoteJobConfFile,
                job.conf, job.numMapTasks,
                job.taskAttemptListener, job.jobToken,
                job.jobCredentials, job.clock,
                job.applicationAttemptId.getAttemptId(),
                job.metrics, job.appContext);
        job.addTask(task);
    }
    LOG.info("Number of reduces for job " + job.jobId + " = "
        + job.numReduceTasks);
}

protected TaskSplitMetaInfo[] createSplits(JobImpl job, JobId jobId) {
    TaskSplitMetaInfo[] allTaskSplitMetaInfo;
    try {
        allTaskSplitMetaInfo = SplitMetaInfoReader.readSplitMetaInfo(
            job.oldJobId, job.fs,
            job.conf,
            job.remoteJobSubmitDir);
    } catch (IOException e) {
        throw new YarnRuntimeException(e);
    }
    return allTaskSplitMetaInfo;
}

/**
 * If the number of tasks are greater than the configured value
 * throw an exception that will fail job initialization
 */
private void checkTaskLimits() {

```

```

    // no code, for now
    }
} // end of InitTransition

private static class SetupCompletedTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.setupProgress = 1.0f;
        job.scheduleTasks(job.mapTasks, job.numReduceTasks == 0);
        job.scheduleTasks(job.reduceTasks, true);

        // If we have no tasks, just transition to job completed
        if (job.numReduceTasks == 0 && job.numMapTasks == 0) {
            job.eventHandler.handle(new JobEvent(job.jobId,
                JobEventType.JOB_COMPLETED));
        }
    }
}

private static class SetupFailedTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.metrics.endRunningJob(job);
        job.addDiagnostic("Job setup failed : "
            + ((JobSetupFailedEvent) event).getMessage());
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext,
            org.apache.hadoop.mapreduce.JobStatus.State.FAILED));
    }
}

public static class StartTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    /**
     * This transition executes in the event-dispatcher thread, though it's
     * triggered in MRAppMaster's startJobs() method.
     */
    @Override
    public void transition(JobImpl job, JobEvent event) {
        JobStartEvent jse = (JobStartEvent) event;
        if (jse.getRecoveredJobStartTime() != 0) {
            job.startTime = jse.getRecoveredJobStartTime();
        } else {
            job.startTime = job.clock.getTime();
        }
        JobInitedEvent jie =

```

```

        new JobInitiatedEvent(job.oldJobId,
            job.startTime,
            job.numMapTasks, job.numReduceTasks,
            job.getState().toString(),
            job.isUber());
        job.eventHandler.handle(new JobHistoryEvent(job.jobId, jie));
        JobInfoChangeEvent jice = new JobInfoChangeEvent(job.oldJobId,
            job.appSubmitTime, job.startTime);
        job.eventHandler.handle(new JobHistoryEvent(job.jobId, jice));
        job.metrics.runningJob(job);

        job.eventHandler.handle(new CommitterJobSetupEvent(
            job.jobId, job.jobContext));
    }
}

private void unsuccessfulFinish(JobStateInternal finalState) {
    if (finishTime == 0) setFinishTime();
    cleanupProgress = 1.0f;
    JobUnsuccessfulCompletionEvent unsuccessfulJobEvent =
        new JobUnsuccessfulCompletionEvent(oldJobId,
            finishTime,
            succeededMapTaskCount,
            succeededReduceTaskCount,
            finalState.toString());
    eventHandler.handle(new JobHistoryEvent(jobId,
        unsuccessfulJobEvent));
    finished(finalState);
}

private static class JobAbortCompletedTransition
implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        JobStateInternal finalState = JobStateInternal.valueOf(
            ((JobAbortCompletedEvent) event).getFinalState().name());
        job.unsuccessfulFinish(finalState);
    }
}

//This transition happens when a job is to be failed. It waits for all the
//tasks to finish / be killed.
private static class JobFailWaitTransition
implements MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> {
    @Override
    public JobStateInternal transition(JobImpl job, JobEvent event) {
        if(!job.failWaitTriggerScheduledFuture.isCancelled()) {
            for(Task task: job.tasks.values()) {

```

```

        if(!task.isFinished()) {
            return JobStateInternal.FAIL_WAIT;
        }
    }
}

//Finished waiting. All tasks finished / were killed
job.failWaitTriggerScheduledFuture.cancel(false);
job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
    job.jobContext, org.apache.hadoop.mapreduce.JobStatus.State.FAILED));
return JobStateInternal.FAIL_ABORT;
}
}

//This transition happens when a job to be failed times out while waiting on
//tasks that had been sent the KILL signal. It is triggered by a
//ScheduledFuture task queued in the executor.
private static class JobFailWaitTimedOutTransition
implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        LOG.info("Timeout expired in FAIL_WAIT waiting for tasks to get killed."
            + " Going to fail job anyway");
        job.failWaitTriggerScheduledFuture.cancel(false);
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext, org.apache.hadoop.mapreduce.JobStatus.State.FAILED));
    }
}

// JobFinishedEvent triggers the move of the history file out of the staging
// area. May need to create a new event type for this if JobFinished should
// not be generated for KilledJobs, etc.
private static JobFinishedEvent createJobFinishedEvent(JobImpl job) {

    job.maybeConstructFinalFullCounters();

    JobFinishedEvent jfe = new JobFinishedEvent(
        job.oldJobId, job.finishTime,
        job.succeededMapTaskCount, job.succeededReduceTaskCount,
        job.failedMapTaskCount, job.failedReduceTaskCount,
        job.finalMapCounters,
        job.finalReduceCounters,
        job.fullCounters);
    return jfe;
}

private void maybeConstructFinalFullCounters() {
    // Calculating full-counters. This should happen only once for the job.
    synchronized (this.fullCountersLock) {

```

```

    if (this.fullCounters != null) {
        // Already constructed. Just return.
        return;
    }
    this.constructFinalFullcounters();
}

}

@Private
public void constructFinalFullcounters() {
    this.fullCounters = new Counters();
    this.finalMapCounters = new Counters();
    this.finalReduceCounters = new Counters();
    this.fullCounters.incrAllCounters(jobCounters);
    for (Task t : this.tasks.values()) {
        Counters counters = t.getCounters();
        switch (t.getType()) {
            case MAP:
                this.finalMapCounters.incrAllCounters(counters);
                break;
            case REDUCE:
                this.finalReduceCounters.incrAllCounters(counters);
                break;
            default:
                throw new IllegalStateException("Task type neither map nor reduce: " +
                    t.getType());
        }
        this.fullCounters.incrAllCounters(counters);
    }
}

// Task-start has been moved out of InitTransition, so this arc simply
// hardcodes 0 for both map and reduce finished tasks.
private static class KillNewJobTransition
implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.setFinishTime();
        JobUnsuccessfulCompletionEvent failedEvent =
            new JobUnsuccessfulCompletionEvent(job.oldJobId,
                job.finishTime, 0, 0,
                JobStateInternal.KILLED.toString());
        job.eventHandler.handle(new JobHistoryEvent(job.jobId, failedEvent));
        job.finished(JobStateInternal.KILLED);
    }
}

private static class KillInitedJobTransition

```

```

implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.addDiagnostic("Job received Kill in INITED state.");
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext,
            org.apache.hadoop.mapreduce.JobStatus.State.KILLED));
    }
}

private static class KilledDuringSetupTransition
implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.metrics.endRunningJob(job);
        job.addDiagnostic("Job received kill in SETUP state.");
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext,
            org.apache.hadoop.mapreduce.JobStatus.State.KILLED));
    }
}

private static class KillTasksTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.addDiagnostic("Job received Kill while in RUNNING state.");
        for (Task task : job.tasks.values()) {
            job.eventHandler.handle(
                new TaskEvent(task.getID(), TaskEventType.T_KILL));
        }
        job.metrics.endRunningJob(job);
    }
}

private static class TaskAttemptCompletedEventTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        TaskAttemptCompletionEvent tce =
            ((JobTaskAttemptCompletedEvent) event).getCompletionEvent();
        // Add the TaskAttemptCompletionEvent
        //eventId is equal to index in the arraylist
        tce.setEventId(job.taskAttemptCompletionEvents.size());
        job.taskAttemptCompletionEvents.add(tce);
        int mapEventIdx = -1;
        if (TaskType.MAP.equals(tce.getAttemptId().getTaskId().getTaskType())) {
            // we track map completions separately from task completions because

```



```

// - getMapAttemptCompletionEvents uses index ranges specific to maps
// - type converting the same events over and over is expensive
mapEventIdx = job.mapAttemptCompletionEvents.size();
job.mapAttemptCompletionEvents.add(TypeConverter.fromYarn(tce));
}
job.taskCompletionIdxToMapCompletionIdx.add(mapEventIdx);

TaskAttemptId attemptId = tce.getAttemptId();
TaskId taskId = attemptId.getTaskId();
//make the previous completion event as obsolete if it exists
Integer successEventNo =
    job.successAttemptCompletionEventNoMap.remove(taskId);
if (successEventNo != null) {
    TaskAttemptCompletionEvent successEvent =
        job.taskAttemptCompletionEvents.get(successEventNo);
    successEvent.setStatus(TaskAttemptCompletionEventStatus.OBSOLETE);
    int mapCompletionIdx =
        job.taskCompletionIdxToMapCompletionIdx.get(successEventNo);
    if (mapCompletionIdx >= 0) {
        // update the corresponding TaskCompletionEvent for the map
        TaskCompletionEvent mapEvent =
            job.mapAttemptCompletionEvents.get(mapCompletionIdx);
        job.mapAttemptCompletionEvents.set(mapCompletionIdx,
            new TaskCompletionEvent(mapEvent.getEventId(),
                mapEvent.getTaskAttemptId(), mapEvent.idWithinJob(),
                mapEvent.isMapTask(), TaskCompletionEvent.Status.OBSOLETE,
                mapEvent.getTaskTrackerHttp()));
    }
}

// if this attempt is not successful then why is the previous successful
// attempt being removed above - MAPREDUCE-4330
if (TaskAttemptCompletionEventStatus.SUCCEEDED.equals(tce.getStatus())) {
    job.successAttemptCompletionEventNoMap.put(taskId, tce.getEventId());

    // here we could have simply called Task.getSuccessfulAttempt() but
    // the event that triggers this code is sent before
    // Task.successfulAttempt is set and so there is no guarantee that it
    // will be available now
    Task task = job.tasks.get(taskId);
    TaskAttempt attempt = task.getAttempt(attemptId);
    NodeId nodeId = attempt.getNodeId();
    assert (nodeId != null); // node must exist for a successful event
    List<TaskAttemptId> taskAttemptIdList = job.nodesToSucceededTaskAttempts
        .get(nodeId);
    if (taskAttemptIdList == null) {
        taskAttemptIdList = new ArrayList<TaskAttemptId>();
        job.nodesToSucceededTaskAttempts.put(nodeId, taskAttemptIdList);
    }
}

```

```

    }
    taskAttemptIdList.add(attempt.getID());
  }
}
}

```

private static class TaskAttemptFetchFailureTransition implements

```

    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        //get number of shuffling reduces
        int shufflingReduceTasks = 0;
        for (TaskId taskId : job.reduceTasks) {
            Task task = job.tasks.get(taskId);
            if (TaskState.RUNNING.equals(task.getState())) {
                for (TaskAttempt attempt : task.getAttempts().values()) {
                    if (attempt.getPhase() == Phase.SHUFFLE) {
                        shufflingReduceTasks++;
                        break;
                    }
                }
            }
        }
    }
}

```

```

JobTaskAttemptFetchFailureEvent fetchfailureEvent =
    (JobTaskAttemptFetchFailureEvent) event;
for (org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId mapId :
    fetchfailureEvent.getMasks()) {
    Integer fetchFailures = job.fetchFailuresMapping.get(mapId);
    fetchFailures = (fetchFailures == null) ? 1 : (fetchFailures+1);
    job.fetchFailuresMapping.put(mapId, fetchFailures);

    float failureRate = shufflingReduceTasks == 0 ? 1.0f :
        (float) fetchFailures / shufflingReduceTasks;
    // declare faulty if fetch-failures >= max-allowed-failures
    boolean isMapFaulty =
        (failureRate >= MAX_ALLOWED_FETCH_FAILURES_FRACTION);
    if (fetchFailures >= MAX_FETCH_FAILURES_NOTIFICATIONS && isMapFaulty) {
        LOG.info("Too many fetch-failures for output of task attempt: " +
            mapId + " ... raising fetch failure to map");
        job.eventHandler.handle(new TaskAttemptEvent(mapId,
            TaskAttemptEventType.TA_TOO_MANY_FETCH_FAILURE));
        job.fetchFailuresMapping.remove(mapId);
    }
}
}
}
}

```

```

private static class TaskCompletedTransition implements
    MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> {

    @Override
    public JobStateInternal transition(JobImpl job, JobEvent event) {
        job.completedTaskCount++;
        LOG.info("Num completed Tasks: " + job.completedTaskCount);
        JobTaskEvent taskEvent = (JobTaskEvent) event;
        Task task = job.tasks.get(taskEvent.getTaskID());
        if (taskEvent.getState() == TaskState.SUCCEEDED) {
            taskSucceeded(job, task);
        } else if (taskEvent.getState() == TaskState.FAILED) {
            taskFailed(job, task);
        } else if (taskEvent.getState() == TaskState.KILLED) {
            taskKilled(job, task);
        }

        return checkJobAfterTaskCompletion(job);
    }

    //This class is used to queue a ScheduledFuture to send an event to a job
    //after some delay. This can be used to wait for maximum amount of time
    //before proceeding anyway. e.g. When a job is waiting in FAIL_WAIT for
    //all tasks to be killed.
    static class TriggerScheduledFuture implements Runnable {
        JobEvent toSend;
        JobImpl job;
        TriggerScheduledFuture(JobImpl job, JobEvent toSend) {
            this.toSend = toSend;
            this.job = job;
        }
        public void run() {
            LOG.info("Sending event " + toSend + " to " + job.getID());
            job.getEventHandler().handle(toSend);
        }
    }

    protected JobStateInternal checkJobAfterTaskCompletion(JobImpl job) {
        //check for Job failure
        if (job.failedMapTaskCount*100 >
            job.allowedMapFailuresPercent*job.numMapTasks ||
            job.failedReduceTaskCount*100 >
            job.allowedReduceFailuresPercent*job.numReduceTasks) {
            job.setFinishTime();

            String diagnosticMsg = "Job failed as tasks failed. " +
                "failedMaps:" + job.failedMapTaskCount +
                " failedReduces:" + job.failedReduceTaskCount;

```

```

LOG.info(diagnosticMsg);
job.addDiagnostic(diagnosticMsg);

//Send kill signal to all unfinished tasks here.
boolean allDone = true;
for (Task task : job.tasks.values()) {
    if(!task.isFinished()) {
        allDone = false;
        job.eventHandler.handle(
            new TaskEvent(task.getID(), TaskEventType.T_KILL));
    }
}

//If all tasks are already done, we should go directly to FAIL_ABORT
if(allDone) {
    job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
        job.jobContext, org.apache.hadoop.mapreduce.JobStatus.State.FAILED)
    );
    return JobStateInternal.FAIL_ABORT;
}

//Set max timeout to wait for the tasks to get killed
job.failWaitTriggerScheduledFuture = job.executor.schedule(
    new TriggerScheduledFuture(job, new JobEvent(job.getID(),
        JobEventType.JOB_FAIL_WAIT_TIMEDOUT)), job.conf.getInt(
        MRJobConfig.MR_AM_COMMITTER_CANCEL_TIMEOUT_MS,
        MRJobConfig.DEFAULT_MR_AM_COMMITTER_CANCEL_TIMEOUT_MS),
        TimeUnit.MILLISECONDS);
return JobStateInternal.FAIL_WAIT;
}

return job.checkReadyForCommit();
}

private void taskSucceeded(JobImpl job, Task task) {
    if (task.getType() == TaskType.MAP) {
        job.succeededMapTaskCount++;
    } else {
        job.succeededReduceTaskCount++;
    }
    job.metrics.completedTask(task);
}

private void taskFailed(JobImpl job, Task task) {
    if (task.getType() == TaskType.MAP) {
        job.failedMapTaskCount++;
    } else if (task.getType() == TaskType.REDUCE) {
        job.failedReduceTaskCount++;
    }
}

```

```

    }
    job.addDiagnostic("Task failed " + task.getID());
    job.metrics.failedTask(task);
}

private void taskKilled(JobImpl job, Task task) {
    if (task.getType() == TaskType.MAP) {
        job.killedMapTaskCount++;
    } else if (task.getType() == TaskType.REDUCE) {
        job.killedReduceTaskCount++;
    }
    job.metrics.killedTask(task);
}
}

// Transition class for handling jobs with no tasks
private static class JobNoTasksCompletedTransition implements
MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> {

    @Override
    public JobStateInternal transition(JobImpl job, JobEvent event) {
        return job.checkReadyForCommit();
    }
}

private static class CommitSucceededTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.logJobHistoryFinishedEvent();
        job.finished(JobStateInternal.SUCCEEDED);
    }
}

private static class CommitFailedTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        JobCommitFailedEvent jcfe = (JobCommitFailedEvent)event;
        job.addDiagnostic("Job commit failed: " + jcfe.getMessage());
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext,
            org.apache.hadoop.mapreduce.JobStatus.State.FAILED));
    }
}

private static class KilledDuringCommitTransition implements
    SingleArcTransition<JobImpl, JobEvent> {

```

```

@Override
public void transition(JobImpl job, JobEvent event) {
    job.setFinishTime();
    job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
        job.jobContext,
        org.apache.hadoop.mapreduce.JobStatus.State.KILLED));
}
}

private static class KilledDuringAbortTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.unsuccessfulFinish(JobStateInternal.KILLED);
    }
}

private static class MapTaskRescheduledTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        //succeeded map task is restarted back
        job.completedTaskCount--;
        job.succeededMapTaskCount--;
    }
}

private static class KillWaitTaskCompletedTransition extends
    TaskCompletedTransition {
    @Override
    protected JobStateInternal checkJobAfterTaskCompletion(JobImpl job) {
        if (job.completedTaskCount == job.tasks.size()) {
            job.setFinishTime();
            job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
                job.jobContext,
                org.apache.hadoop.mapreduce.JobStatus.State.KILLED));
            return JobStateInternal.KILL_ABORT;
        }
        //return the current state, Job not finished yet
        return job.getInternalState();
    }
}

protected void addDiagnostic(String diag) {
    diagnostics.add(diag);
}

private static class DiagnosticsUpdateTransition implements

```

```

    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.addDiagnostic(((JobDiagnosticsUpdateEvent) event)
            .getDiagnosticUpdate());
    }
}

private static class CounterUpdateTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        JobCounterUpdateEvent jce = (JobCounterUpdateEvent) event;
        for (JobCounterUpdateEvent.CounterIncrementalUpdate ci : jce
            .getCounterUpdates()) {
            job.jobCounters.findCounter(ci.getCounterKey()).increment(
                ci.getIncrementValue());
        }
    }
}

private static class UpdatedNodesTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        JobUpdatedNodesEvent updateEvent = (JobUpdatedNodesEvent) event;
        for(NodeReport nr: updateEvent.getUpdatedNodes()) {
            NodeState nodeState = nr.getNodeState();
            if(nodeState.isUnusable()) {
                // act on the updates
                job.actOnUnusableNode(nr.getNodeId(), nodeState);
            }
        }
    }
}

private static class InternalTerminationTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    JobStateInternal terminationState = null;
    String jobHistoryString = null;
    public InternalTerminationTransition(JobStateInternal stateInternal,
        String jobHistoryString) {
        this.terminationState = stateInternal;
        //mostly a hack for jbhistoryserver
        this.jobHistoryString = jobHistoryString;
    }

    @Override

```

```

public void transition(JobImpl job, JobEvent event) {
    //TODO Is this JH event required.
    job.setFinishTime();
    JobUnsuccessfulCompletionEvent failedEvent =
        new JobUnsuccessfulCompletionEvent(job.oldJobId,
            job.finishTime, 0, 0,
            jobHistoryString);
    job.eventHandler.handle(new JobHistoryEvent(job.jobId, failedEvent));
    job.finished(terminationState);
}
}

private static class InternalErrorTransition extends InternalTerminationTransition {
    public InternalErrorTransition(){
        super(JobStateInternal.ERROR, JobStateInternal.ERROR.toString());
    }
}

private static class InternalRebootTransition extends InternalTerminationTransition {
    public InternalRebootTransition(){
        super(JobStateInternal.REBOOT, JobStateInternal.ERROR.toString());
    }
}

@Override
public Configuration loadConfFile() throws IOException {
    Path confPath = getConfFile();
    FileContext fc = FileContext.getFileContext(confPath.toUri(), conf);
    Configuration jobConf = new Configuration(false);
    jobConf.addResource(fc.open(confPath), confPath.toString());
    return jobConf;
}
}
/**
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```



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\*/

```
package org.apache.hadoop.mapreduce.v2.app.job.impl;

import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.ReduceTaskAttemptImpl;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.metrics.MRAppMetrics;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.util.Clock;

@SuppressWarnings({ "rawtypes" })
public class ReduceTaskImpl extends TaskImpl {

    private final int numMapTasks;

    public ReduceTaskImpl(JobId jobId, int partition,
        EventHandler eventHandler, Path jobFile, JobConf conf,
        int numMapTasks, TaskAttemptListener taskAttemptListener,
        Token<JobTokenIdentifier> jobToken,
        Credentials credentials, Clock clock,
        int appAttemptId, MRAppMetrics metrics, AppContext appContext) {
        super(jobId, TaskType.REDUCE, partition, eventHandler, jobFile, conf,
            taskAttemptListener, jobToken, credentials, clock,
            appAttemptId, metrics, appContext);
        this.numMapTasks = numMapTasks;
    }

    @Override
    protected int getMaxAttempts() {
        return conf.getInt(MRJobConfig.REDUCE_MAX_ATTEMPTS, 4);
    }

    @Override
    protected TaskAttemptImpl createAttempt() {
        return new ReduceTaskAttemptImpl(getID(), nextAttemptNumber,
            eventHandler, jobFile,
            partition, numMapTasks, conf, taskAttemptListener,
            jobToken, credentials, clock, appContext);
    }
}
```

```

}

@Override
public TaskType getType() {
    return TaskType.REDUCE;
}

}
/**
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.apache.hadoop.mapreduce.v2.app.job.impl;

import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.UnknownHostException;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.EnumSet;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;
import java.util.regex.Pattern;

import org.apache.commons.logging.Log;

```

```

import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.DataOutputBuffer;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.JobContext;
import org.apache.hadoop.mapred.MapReduceChildJVM;
import org.apache.hadoop.mapred.ShuffleHandler;
import org.apache.hadoop.mapred.Task;
import org.apache.hadoop.mapred.TaskAttemptContextImpl;
import org.apache.hadoop.mapred.WrappedJvmID;
import org.apache.hadoop.mapred.WrappedProgressSplitsBlock;
import org.apache.hadoop.mapreduce.Counter;
import org.apache.hadoop.mapreduce.Counters;
import org.apache.hadoop.mapreduce.JobCounter;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.OutputCommitter;
import org.apache.hadoop.mapreduce.TaskAttemptContext;
import org.apache.hadoop.mapreduce.TaskCounter;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.jobhistory.JobHistoryEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobHistoryParser.TaskAttemptInfo;
import org.apache.hadoop.mapreduce.jobhistory.MapAttemptFinishedEvent;
import org.apache.hadoop.mapreduce.jobhistory.ReduceAttemptFinishedEvent;
import org.apache.hadoop.mapreduce.jobhistory.TaskAttemptStartedEvent;
import org.apache.hadoop.mapreduce.jobhistory.TaskAttemptUnsuccessfulCompletionEvent;
import org.apache.hadoop.mapreduce.security.TokenCache;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.Avataar;
import org.apache.hadoop.mapreduce.v2.api.records.Locality;
import org.apache.hadoop.mapreduce.v2.api.records.Phase;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptReport;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptState;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.commit.CommitterTaskAbortEvent;
import org.apache.hadoop.mapreduce.v2.app.job.TaskAttemptStateInternal;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobCounterUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobTaskAttemptFetchFailureEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptContainerAssignedEvent;

```

```

import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptContainerLaunchedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptKillEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptRecoverEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptStatusUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptStatusUpdateEvent.TaskAttemptStatus;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskEventTypes;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.launcher.ContainerLauncher;
import org.apache.hadoop.mapreduce.v2.app.launcher.ContainerLauncherEvent;
import org.apache.hadoop.mapreduce.v2.app.launcher.ContainerRemoteLaunchEvent;
import org.apache.hadoop.mapreduce.v2.app.rm.ContainerAllocator;
import org.apache.hadoop.mapreduce.v2.app.rm.ContainerAllocatorEvent;
import org.apache.hadoop.mapreduce.v2.app.rm.ContainerRequestEvent;
import org.apache.hadoop.mapreduce.v2.app.speculate.SpeculatorEvent;
import org.apache.hadoop.mapreduce.v2.util.MRApps;
import org.apache.hadoop.net.NetUtils;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.util.StringInterner;
import org.apache.hadoop.util.StringUtils;
import org.apache.hadoop.yarn.api.ApplicationConstants.Environment;
import org.apache.hadoop.yarn.api.records.ApplicationAccessType;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.api.records.LocalResource;
import org.apache.hadoop.yarn.api.records.LocalResourceType;
import org.apache.hadoop.yarn.api.records.LocalResourceVisibility;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.api.records.URL;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.factories.RecordFactory;
import org.apache.hadoop.yarn.factory.providers.RecordFactoryProvider;
import org.apache.hadoop.yarn.state.InvalidStateTransitionException;
import org.apache.hadoop.yarn.state.MultipleArcTransition;
import org.apache.hadoop.yarn.state.SingleArcTransition;
import org.apache.hadoop.yarn.state.StateMachine;
import org.apache.hadoop.yarn.state.StateMachineFactory;
import org.apache.hadoop.yarn.util.Apps;
import org.apache.hadoop.yarn.util.Clock;
import org.apache.hadoop.yarn.util.ConverterUtils;

```

```

import org.apache.hadoop.yarn.util.RackResolver;

import com.google.common.annotations.VisibleForTesting;
import com.google.common.base.Preconditions;

/**
 * Implementation of TaskAttempt interface.
 */
@SuppressWarnings({ "rawtypes" })
public abstract class TaskAttemptImpl implements
    org.apache.hadoop.mapreduce.v2.app.job.TaskAttempt,
    EventHandler<TaskAttemptEvent> {

    static final Counters EMPTY_COUNTERS = new Counters();
    private static final Log LOG = LogFactory.getLog(TaskAttemptImpl.class);
    private static final long MEMORY_SPLITS_RESOLUTION = 1024; //TODO Make configurable?
    private final static RecordFactory recordFactory = RecordFactoryProvider.getRecordFactory(null);

    protected final JobConf conf;
    protected final Path jobFile;
    protected final int partition;
    protected EventHandler eventHandler;
    private final TaskAttemptId attemptId;
    private final Clock clock;
    private final org.apache.hadoop.mapred.JobID oldJobId;
    private final TaskAttemptListener taskAttemptListener;
    private final Resource resourceCapability;
    protected Set<String> dataLocalHosts;
    protected Set<String> dataLocalRacks;
    private final List<String> diagnostics = new ArrayList<String>();
    private final Lock readLock;
    private final Lock writeLock;
    private final AppContext appContext;
    private Credentials credentials;
    private Token<JobTokenIdentifier> jobToken;
    private static AtomicBoolean initialClasspathFlag = new AtomicBoolean();
    private static String initialClasspath = null;
    private static String initialAppClasspath = null;
    private static Object commonContainerSpecLock = new Object();
    private static ContainerLaunchContext commonContainerSpec = null;
    private static final Object classpathLock = new Object();
    private long launchTime;
    private long finishTime;
    private WrappedProgressSplitsBlock progressSplitBlock;
    private int shufflePort = -1;
    private String trackerName;
    private int httpPort;
    private Locality locality;

```

```

private Avataar avataar;

private static final CleanupContainerTransition CLEANUP_CONTAINER_TRANSITION =
    new CleanupContainerTransition();

private static final DiagnosticInformationUpdater
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION
    = new DiagnosticInformationUpdater();

private static final StateMachineFactory
    <TaskAttemptImpl, TaskAttemptStateInternal, TaskAttemptEventType, TaskAttemptEvent>
    stateMachineFactory
    = new StateMachineFactory
        <TaskAttemptImpl, TaskAttemptStateInternal, TaskAttemptEventType, TaskAttemptEvent>
        (TaskAttemptStateInternal.NEW)

// Transitions from the NEW state.
.addTransition(TaskAttemptStateInternal.NEW, TaskAttemptStateInternal.UNASSIGNED,
    TaskAttemptEventType.TA_SCHEDULE, new RequestContainerTransition(false))
.addTransition(TaskAttemptStateInternal.NEW, TaskAttemptStateInternal.UNASSIGNED,
    TaskAttemptEventType.TA_RESCHEDULE, new RequestContainerTransition(true))
.addTransition(TaskAttemptStateInternal.NEW, TaskAttemptStateInternal.KILLED,
    TaskAttemptEventType.TA_KILL, new KilledTransition())
.addTransition(TaskAttemptStateInternal.NEW, TaskAttemptStateInternal.FAILED,
    TaskAttemptEventType.TA_FAILMSG, new FailedTransition())
.addTransition(TaskAttemptStateInternal.NEW,
    EnumSet.of(TaskAttemptStateInternal.FAILED,
        TaskAttemptStateInternal.KILLED,
        TaskAttemptStateInternal.SUCCEEDED),
    TaskAttemptEventType.TA_RECOVER, new RecoverTransition())
.addTransition(TaskAttemptStateInternal.NEW,
    TaskAttemptStateInternal.NEW,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)

// Transitions from the UNASSIGNED state.
.addTransition(TaskAttemptStateInternal.UNASSIGNED,
    TaskAttemptStateInternal.ASSIGNED, TaskAttemptEventType.TA_ASSIGNED,
    new ContainerAssignedTransition())
.addTransition(TaskAttemptStateInternal.UNASSIGNED, TaskAttemptStateInternal.KILLED,
    TaskAttemptEventType.TA_KILL, new DeallocateContainerTransition(
        TaskAttemptStateInternal.KILLED, true))
.addTransition(TaskAttemptStateInternal.UNASSIGNED, TaskAttemptStateInternal.FAILED,
    TaskAttemptEventType.TA_FAILMSG, new DeallocateContainerTransition(
        TaskAttemptStateInternal.FAILED, true))
.addTransition(TaskAttemptStateInternal.UNASSIGNED,
    TaskAttemptStateInternal.UNASSIGNED,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,

```

DIAGNOSTIC\_INFORMATION\_UPDATE\_TRANSITION)

```
// Transitions from the ASSIGNED state.
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.RUNNING,
    TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
    new LaunchedContainerTransition())
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.ASSIGNED,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.FAILED,
    TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED,
    new DeallocateContainerTransition(TaskAttemptStateInternal.FAILED, false))
.addTransition(TaskAttemptStateInternal.ASSIGNED,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_CONTAINER_COMPLETED,
    CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.ASSIGNED,
    TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_KILL, CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.ASSIGNED,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_FAILMSG, CLEANUP_CONTAINER_TRANSITION)

// Transitions from RUNNING state.
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.RUNNING,
    TaskAttemptEventType.TA_UPDATE, new StatusUpdater())
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.RUNNING,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// If no commit is required, task directly goes to success
.addTransition(TaskAttemptStateInternal.RUNNING,
    TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_DONE, CLEANUP_CONTAINER_TRANSITION)
// If commit is required, task goes through commit pending state.
.addTransition(TaskAttemptStateInternal.RUNNING,
    TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptEventType.TA_COMMIT_PENDING, new CommitPendingTransition())
// Failure handling while RUNNING
.addTransition(TaskAttemptStateInternal.RUNNING,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_FAILMSG, CLEANUP_CONTAINER_TRANSITION)
//for handling container exit without sending the done or fail msg
.addTransition(TaskAttemptStateInternal.RUNNING,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_CONTAINER_COMPLETED,
    CLEANUP_CONTAINER_TRANSITION)
// Timeout handling while RUNNING
.addTransition(TaskAttemptStateInternal.RUNNING,
```

```

    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_TIMED_OUT, CLEANUP_CONTAINER_TRANSITION)
// if container killed by AM shutting down
.addTransition(TaskAttemptStateInternal.RUNNING,
    TaskAttemptStateInternal.KILLED,
    TaskAttemptEventType.TA_CONTAINER_CLEANED, new KilledTransition())
// Kill handling
.addTransition(TaskAttemptStateInternal.RUNNING,
    TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_KILL,
    CLEANUP_CONTAINER_TRANSITION)

// Transitions from COMMIT_PENDING state
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptStateInternal.COMMIT_PENDING, TaskAttemptEventType.TA_UPDATE,
    new StatusUpdater())
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_DONE, CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_KILL,
    CLEANUP_CONTAINER_TRANSITION)
// if container killed by AM shutting down
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptStateInternal.KILLED,
    TaskAttemptEventType.TA_CONTAINER_CLEANED, new KilledTransition())
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_FAILMSG, CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_CONTAINER_COMPLETED,
    CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_TIMED_OUT, CLEANUP_CONTAINER_TRANSITION)

// Transitions from SUCCESS_CONTAINER_CLEANUP state
// kill and cleanup the container
.addTransition(TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.SUCCEEDED, TaskAttemptEventType.TA_CONTAINER_CLEANED,
    new SucceededTransition())
.addTransition(
    TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,

```



```

    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.addTransition(TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
    EnumSet.of(TaskAttemptEventType.TA_KILL,
        TaskAttemptEventType.TA_FAILMSG,
        TaskAttemptEventType.TA_TIMED_OUT,
        TaskAttemptEventType.TA_CONTAINER_COMPLETED))

// Transitions from FAIL_CONTAINER_CLEANUP state.
.addTransition(TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptEventType.TA_CONTAINER_CLEANED, new TaskCleanupTransition())
.addTransition(TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.addTransition(TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
    EnumSet.of(TaskAttemptEventType.TA_KILL,
        TaskAttemptEventType.TA_CONTAINER_COMPLETED,
        TaskAttemptEventType.TA_UPDATE,
        TaskAttemptEventType.TA_COMMIT_PENDING,
        // Container launch events can arrive late
        TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
        TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED,
        TaskAttemptEventType.TA_DONE,
        TaskAttemptEventType.TA_FAILMSG,
        TaskAttemptEventType.TA_TIMED_OUT))

// Transitions from KILL_CONTAINER_CLEANUP
.addTransition(TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptEventType.TA_CONTAINER_CLEANED, new TaskCleanupTransition())
.addTransition(TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.addTransition(
    TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP,
    TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP,
    EnumSet.of(TaskAttemptEventType.TA_KILL,
        TaskAttemptEventType.TA_CONTAINER_COMPLETED,
        TaskAttemptEventType.TA_UPDATE,
        TaskAttemptEventType.TA_COMMIT_PENDING,

```

```

    TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
    TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED,
    TaskAttemptEventType.TA_DONE,
    TaskAttemptEventType.TA_FAILMSG,
    TaskAttemptEventType.TA_TIMED_OUT))

// Transitions from FAIL_TASK_CLEANUP
// run the task cleanup
.addTransition(TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptStateInternal.FAILED, TaskAttemptEventType.TA_CLEANUP_DONE,
    new FailedTransition())
.addTransition(TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.addTransition(TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    EnumSet.of(TaskAttemptEventType.TA_KILL,
        TaskAttemptEventType.TA_CONTAINER_COMPLETED,
        TaskAttemptEventType.TA_UPDATE,
        TaskAttemptEventType.TA_COMMIT_PENDING,
        TaskAttemptEventType.TA_DONE,
        TaskAttemptEventType.TA_FAILMSG,
        TaskAttemptEventType.TA_CONTAINER_CLEANED,
        // Container launch events can arrive late
        TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
        TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED))

// Transitions from KILL_TASK_CLEANUP
.addTransition(TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptStateInternal.KILLED, TaskAttemptEventType.TA_CLEANUP_DONE,
    new KilledTransition())
.addTransition(TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.addTransition(TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    EnumSet.of(TaskAttemptEventType.TA_KILL,
        TaskAttemptEventType.TA_CONTAINER_COMPLETED,
        TaskAttemptEventType.TA_UPDATE,
        TaskAttemptEventType.TA_COMMIT_PENDING,
        TaskAttemptEventType.TA_DONE,
        TaskAttemptEventType.TA_FAILMSG,
        TaskAttemptEventType.TA_CONTAINER_CLEANED,
        // Container launch events can arrive late

```

```

TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED))

// Transitions from SUCCEEDED
.addTransition(TaskAttemptStateInternal.SUCCEEDED, //only possible for map attempts
    TaskAttemptStateInternal.FAILED,
    TaskAttemptEventType.TA_TOO_MANY_FETCH_FAILURE,
    new TooManyFetchFailureTransition())
.addTransition(TaskAttemptStateInternal.SUCCEEDED,
    EnumSet.of(TaskAttemptStateInternal.SUCCEEDED, TaskAttemptStateInternal.KILLED),
    TaskAttemptEventType.TA_KILL,
    new KilledAfterSuccessTransition())
.addTransition(
    TaskAttemptStateInternal.SUCCEEDED, TaskAttemptStateInternal.SUCCEEDED,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events for SUCCEEDED state
.addTransition(TaskAttemptStateInternal.SUCCEEDED,
    TaskAttemptStateInternal.SUCCEEDED,
    EnumSet.of(TaskAttemptEventType.TA_FAILMSG,
    TaskAttemptEventType.TA_CONTAINER_CLEANED,
    TaskAttemptEventType.TA_CONTAINER_COMPLETED))

// Transitions from FAILED state
.addTransition(TaskAttemptStateInternal.FAILED, TaskAttemptStateInternal.FAILED,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events for FAILED state
.addTransition(TaskAttemptStateInternal.FAILED, TaskAttemptStateInternal.FAILED,
    EnumSet.of(TaskAttemptEventType.TA_KILL,
    TaskAttemptEventType.TA_ASSIGNED,
    TaskAttemptEventType.TA_CONTAINER_COMPLETED,
    TaskAttemptEventType.TA_UPDATE,
    // Container launch events can arrive late
    TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
    TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED,
    TaskAttemptEventType.TA_CONTAINER_CLEANED,
    TaskAttemptEventType.TA_COMMIT_PENDING,
    TaskAttemptEventType.TA_DONE,
    TaskAttemptEventType.TA_FAILMSG,
    TaskAttemptEventType.TA_TOO_MANY_FETCH_FAILURE))

// Transitions from KILLED state
.addTransition(TaskAttemptStateInternal.KILLED, TaskAttemptStateInternal.KILLED,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events for KILLED state
.addTransition(TaskAttemptStateInternal.KILLED, TaskAttemptStateInternal.KILLED,

```

```

EnumSet.of(TaskAttemptEventType.TA_KILL,
    TaskAttemptEventType.TA_ASSIGNED,
    TaskAttemptEventType.TA_CONTAINER_COMPLETED,
    TaskAttemptEventType.TA_UPDATE,
    // Container launch events can arrive late
    TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
    TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED,
    TaskAttemptEventType.TA_CONTAINER_CLEANED,
    TaskAttemptEventType.TA_COMMIT_PENDING,
    TaskAttemptEventType.TA_DONE,
    TaskAttemptEventType.TA_FAILMSG))

// create the topology tables
.installTopology();

private final StateMachine
    <TaskAttemptStateInternal, TaskAttemptEventType, TaskAttemptEvent>
    stateMachine;

@VisibleForTesting
public Container container;
private String nodeRackName;
private WrappedJvmID jvmID;

//this takes good amount of memory ~ 30KB. Instantiate it lazily
//and make it null once task is launched.
private org.apache.hadoop.mapred.Task remoteTask;

//this is the last status reported by the REMOTE running attempt
private TaskAttemptStatus reportedStatus;

private static final String LINE_SEPARATOR = System
    .getProperty("line.separator");

public TaskAttemptImpl(TaskId taskId, int i,
    EventHandler eventHandler,
    TaskAttemptListener taskAttemptListener, Path jobFile, int partition,
    JobConf conf, String[] dataLocalHosts,
    Token<JobTokenIdentifier> jobToken,
    Credentials credentials, Clock clock,
    AppContext appContext) {
    oldJobId = TypeConverter.fromYarn(taskId.getJobId());
    this.conf = conf;
    this.clock = clock;
    attemptId = recordFactory.newRecordInstance(TaskAttemptId.class);
    attemptId.setTaskId(taskId);
    attemptId.setId(i);
    this.taskAttemptListener = taskAttemptListener;

```

```

this.appContext = appContext;

// Initialize reportedStatus
reportedStatus = new TaskAttemptStatus();
initTaskAttemptStatus(reportedStatus);

ReadWriteLock readWriteLock = new ReentrantReadWriteLock();
readLock = readWriteLock.readLock();
writeLock = readWriteLock.writeLock();

this.credentials = credentials;
this.jobToken = jobToken;
this.eventHandler = eventHandler;
this.jobFile = jobFile;
this.partition = partition;

//TODO:create the resource reqt for this Task attempt
this.resourceCapability = recordFactory.newRecordInstance(Resource.class);
this.resourceCapability.setMemory(
    getMemoryRequired(conf, taskId.getTaskType()));
this.resourceCapability.setVirtualCores(
    getCpuRequired(conf, taskId.getTaskType()));

this.dataLocalHosts = resolveHosts(dataLocalHosts);
RackResolver.init(conf);
this.dataLocalRacks = new HashSet<String>();
for (String host : this.dataLocalHosts) {
    this.dataLocalRacks.add(RackResolver.resolve(host).getNetworkLocation());
}

locality = Locality.OFF_SWITCH;
avataar = Avataar.VIRGIN;

// This "this leak" is okay because the retained pointer is in an
// instance variable.
stateMachine = stateMachineFactory.make(this);
}

private int getMemoryRequired(Configuration conf, TaskType taskType) {
    int memory = 1024;
    if (taskType == TaskType.MAP) {
        memory =
            conf.getInt(MRJobConfig.MAP_MEMORY_MB,
                MRJobConfig.DEFAULT_MAP_MEMORY_MB);
    } else if (taskType == TaskType.REDUCE) {
        memory =
            conf.getInt(MRJobConfig.REDUCE_MEMORY_MB,
                MRJobConfig.DEFAULT_REDUCE_MEMORY_MB);
    }
}

```

```

    }

    return memory;
}

private int getCpuRequired(Configuration conf, TaskType taskType) {
    int vcores = 1;
    if (taskType == TaskType.MAP) {
        vcores =
            conf.getInt(MRJobConfig.MAP_CPU_VCORES,
                MRJobConfig.DEFAULT_MAP_CPU_VCORES);
    } else if (taskType == TaskType.REDUCE) {
        vcores =
            conf.getInt(MRJobConfig.REDUCE_CPU_VCORES,
                MRJobConfig.DEFAULT_REDUCE_CPU_VCORES);
    }

    return vcores;
}

/**
 * Create a {@link LocalResource} record with all the given parameters.
 */
private static LocalResource createLocalResource(FileSystem fc, Path file,
    LocalResourceType type, LocalResourceVisibility visibility)
    throws IOException {
    FileStatus fstat = fc.getFileStatus(file);
    URL resourceURL = ConverterUtils.getYarnUrlFromPath(fc.resolvePath(fstat
        .getPath()));
    long resourceSize = fstat.getLen();
    long resourceModificationTime = fstat.getModificationTime();

    return LocalResource.newInstance(resourceURL, type, visibility,
        resourceSize, resourceModificationTime);
}

/**
 * Lock this on initialClasspath so that there is only one fork in the AM for
 * getting the initial class-path. TODO: We already construct
 * a parent CLC and use it for all the containers, so this should go away
 * once the mr-generated-classpath stuff is gone.
 */
private static String getInitialClasspath(Configuration conf) throws IOException {
    synchronized (classpathLock) {
        if (initialClasspathFlag.get()) {
            return initialClasspath;
        }
        Map<String, String> env = new HashMap<String, String>();

```

```

MRApps.setClasspath(env, conf);
initialClasspath = env.get(Environment.CLASSPATH.name());
initialAppClasspath = env.get(Environment.APP_CLASSPATH.name());
initialClasspathFlag.set(true);
return initialClasspath;
}
}

/**
 * Create the common {@link ContainerLaunchContext} for all attempts.
 * @param applicationACLs
 */
private static ContainerLaunchContext createCommonContainerLaunchContext(
    Map<ApplicationAccessType, String> applicationACLs, Configuration conf,
    Token<JobTokenIdentifier> jobToken,
    final org.apache.hadoop.mapred.JobID oldJobId,
    Credentials credentials) {

    // Application resources
    Map<String, LocalResource> localResources =
        new HashMap<String, LocalResource>();

    // Application environment
    Map<String, String> environment = new HashMap<String, String>();

    // Service data
    Map<String, ByteBuffer> serviceData = new HashMap<String, ByteBuffer>();

    // Tokens
    ByteBuffer taskCredentialsBuffer = ByteBuffer.wrap(new byte[] {});
    try {
        FileSystem remoteFS = FileSystem.get(conf);

        // //////////// Set up JobJar to be localized properly on the remote NM.
        String jobJar = conf.get(MRJobConfig.JAR);
        if (jobJar != null) {
            Path remoteJobJar = (new Path(jobJar)).makeQualified(remoteFS
                .getUri(), remoteFS.getWorkingDirectory());
            LocalResource rc = createLocalResource(remoteFS, remoteJobJar,
                LocalResourceType.PATTERN, LocalResourceVisibility.APPLICATION);
            String pattern = conf.getPattern(JobContext.JAR_UNPACK_PATTERN,
                JobConf.UNPACK_JAR_PATTERN_DEFAULT).pattern();
            rc.setPattern(pattern);
            localResources.put(MRJobConfig.JOB_JAR, rc);
            LOG.info("The job-jar file on the remote FS is "
                + remoteJobJar.toUri().toASCIIString());
        } else {

```

```

// Job jar may be null. For e.g, for pipes, the job jar is the hadoop
// mapreduce jar itself which is already on the classpath.
LOG.info("Job jar is not present. "
    + "Not adding any jar to the list of resources.");
}
// //////////// End of JobJar setup

// //////////// Set up JobConf to be localized properly on the remote NM.
Path path =
    MRApps.getStagingAreaDir(conf, UserGroupInformation
        .getCurrentUser().getShortUserName());
Path remoteJobSubmitDir =
    new Path(path, oldJobId.toString());
Path remoteJobConfPath =
    new Path(remoteJobSubmitDir, MRJobConfig.JOB_CONF_FILE);
localResources.put(
    MRJobConfig.JOB_CONF_FILE,
    createLocalResource(remoteFS, remoteJobConfPath,
        LocalResourceType.FILE, LocalResourceVisibility.APPLICATION));
LOG.info("The job-conf file on the remote FS is "
    + remoteJobConfPath.toUri().toASCIIString());
// //////////// End of JobConf setup

// Setup DistributedCache
MRApps.setupDistributedCache(conf, localResources);

// Setup up task credentials buffer
LOG.info("Adding #" + credentials.numberOfTokens()
    + " tokens and #" + credentials.numberOfSecretKeys()
    + " secret keys for NM use for launching container");
Credentials taskCredentials = new Credentials(credentials);

// LocalStorageToken is needed irrespective of whether security is enabled
// or not.
TokenCache.setJobToken(jobToken, taskCredentials);

DataOutputStream containerTokens_dob = new DataOutputStream();
LOG.info("Size of containertokens_dob is "
    + taskCredentials.numberOfTokens());
taskCredentials.writeTokenStorageToStream(containerTokens_dob);
taskCredentialsBuffer =
    ByteBuffer.wrap(containerTokens_dob.getData(), 0,
        containerTokens_dob.getLength());

// Add shuffle secret key
// The secret key is converted to a JobToken to preserve backwards
// compatibility with an older ShuffleHandler running on an NM.
LOG.info("Putting shuffle token in serviceData");

```



```

byte[] shuffleSecret = TokenCache.getShuffleSecretKey(credentials);
if (shuffleSecret == null) {
    LOG.warn("Cannot locate shuffle secret in credentials."
        + " Using job token as shuffle secret.");
    shuffleSecret = jobToken.getPassword();
}
Token<JobTokenIdentifier> shuffleToken = new Token<JobTokenIdentifier>(
    jobToken.getIdentifier(), shuffleSecret, jobToken.getKind(),
    jobToken.getService());
serviceData.put(ShuffleHandler.MAPREDUCE_SHUFFLE_SERVICEID,
    ShuffleHandler.serializeServiceData(shuffleToken));

Apps.addToEnvironment(
    environment,
    Environment.CLASSPATH.name(),
    getInitialClasspath(conf));

if (initialAppClasspath != null) {
    Apps.addToEnvironment(
        environment,
        Environment.APP_CLASSPATH.name(),
        initialAppClasspath);
}
} catch (IOException e) {
    throw new YarnRuntimeException(e);
}

// Shell
environment.put(
    Environment.SHELL.name(),
    conf.get(
        MRJobConfig.MAPRED_ADMIN_USER_SHELL,
        MRJobConfig.DEFAULT_SHELL)
    );

// Add pwd to LD_LIBRARY_PATH, add this before adding anything else
Apps.addToEnvironment(
    environment,
    Environment.LD_LIBRARY_PATH.name(),
    Environment.PWD.$());

// Add the env variables passed by the admin
Apps.setEnvFromInputString(
    environment,
    conf.get(
        MRJobConfig.MAPRED_ADMIN_USER_ENV,
        MRJobConfig.DEFAULT_MAPRED_ADMIN_USER_ENV)
    );

```

```

// Construct the actual Container
// The null fields are per-container and will be constructed for each
// container separately.
ContainerLaunchContext container =
    ContainerLaunchContext.newInstance(localResources, environment, null,
        serviceData, taskCredentialsBuffer, applicationACLs);

return container;
}

static ContainerLaunchContext createContainerLaunchContext(
    Map<ApplicationAccessType, String> applicationACLs,
    Configuration conf, Token<JobTokenIdentifier> jobToken, Task remoteTask,
    final org.apache.hadoop.mapred.JobID oldJobId,
    WrappedJvmID jvmID,
    TaskAttemptListener taskAttemptListener,
    Credentials credentials) {

    synchronized (commonContainerSpecLock) {
        if (commonContainerSpec == null) {
            commonContainerSpec = createCommonContainerLaunchContext(
                applicationACLs, conf, jobToken, oldJobId, credentials);
        }
    }

    // Fill in the fields needed per-container that are missing in the common
    // spec.

    // Setup environment by cloning from common env.
    Map<String, String> env = commonContainerSpec.getEnvironment();
    Map<String, String> myEnv = new HashMap<String, String>(env.size());
    myEnv.putAll(env);
    MapReduceChildJVM.setVMEnv(myEnv, remoteTask);

    // Set up the launch command
    List<String> commands = MapReduceChildJVM.getVMCommand(
        taskAttemptListener.getAddress(), remoteTask, jvmID);

    // Duplicate the ByteBuffers for access by multiple containers.
    Map<String, ByteBuffer> myServiceData = new HashMap<String, ByteBuffer>();
    for (Entry<String, ByteBuffer> entry : commonContainerSpec
        .getServiceData().entrySet()) {
        myServiceData.put(entry.getKey(), entry.getValue().duplicate());
    }

    // Construct the actual Container
    ContainerLaunchContext container = ContainerLaunchContext.newInstance(

```

```

        commonContainerSpec.getLocalResources(), myEnv, commands,
        myServiceData, commonContainerSpec.getTokens().duplicate(),
        applicationACLs);

    return container;
}

@Override
public ContainerId getAssignedContainerID() {
    readLock.lock();
    try {
        return container == null ? null : container.getId();
    } finally {
        readLock.unlock();
    }
}

@Override
public String getAssignedContainerMgrAddress() {
    readLock.lock();
    try {
        return container == null ? null : StringInterner.weakIntern(container
            .getNodeId().toString());
    } finally {
        readLock.unlock();
    }
}

@Override
public long getLaunchTime() {
    readLock.lock();
    try {
        return launchTime;
    } finally {
        readLock.unlock();
    }
}

@Override
public long getFinishTime() {
    readLock.lock();
    try {
        return finishTime;
    } finally {
        readLock.unlock();
    }
}

```

```

@Override
public long getShuffleFinishTime() {
    readLock.lock();
    try {
        return this.reportedStatus.shuffleFinishTime;
    } finally {
        readLock.unlock();
    }
}

```

```

@Override
public long getSortFinishTime() {
    readLock.lock();
    try {
        return this.reportedStatus.sortFinishTime;
    } finally {
        readLock.unlock();
    }
}

```

```

@Override
public int getShufflePort() {
    readLock.lock();
    try {
        return shufflePort;
    } finally {
        readLock.unlock();
    }
}

```

```

@Override
public NodeId getNodeId() {
    readLock.lock();
    try {
        return container == null ? null : container.getNodeId();
    } finally {
        readLock.unlock();
    }
}

```

/\*\*If container Assigned then return the node's address, otherwise null.

\*/

```

@Override
public String getNodeHttpAddress() {
    readLock.lock();
    try {
        return container == null ? null : container.getNodeHttpAddress();
    } finally {

```

```

        readLock.unlock();
    }
}

/**
 * If container Assigned then return the node's rackname, otherwise null.
 */
@Override
public String getNodeRackName() {
    this.readLock.lock();
    try {
        return this.nodeRackName;
    } finally {
        this.readLock.unlock();
    }
}

protected abstract org.apache.hadoop.mapred.Task createRemoteTask();

@Override
public TaskAttemptId getID() {
    return attemptId;
}

@Override
public boolean isFinished() {
    readLock.lock();
    try {
        // TODO: Use stateMachine level method?
        return (getInternalState() == TaskAttemptStateInternal.SUCCEEDED ||
            getInternalState() == TaskAttemptStateInternal.FAILED ||
            getInternalState() == TaskAttemptStateInternal.KILLED);
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskAttemptReport getReport() {
    TaskAttemptReport result = recordFactory.newRecordInstance(TaskAttemptReport.class);
    readLock.lock();
    try {
        result.setTaskAttemptId(attemptId);
        //take the LOCAL state of attempt
        //DO NOT take from reportedStatus

        result.setTaskAttemptState(getState());
        result.setProgress(reportedStatus.progress);
    }
}

```

```

result.setStartTime(launchTime);
result.setFinishTime(finishTime);
result.setShuffleFinishTime(this.reportedStatus.shuffleFinishTime);
result.setDiagnosticInfo(StringUtils.join(LINE_SEPARATOR, getDiagnostics()));
result.setPhase(reportedException.phase);
result.setStateString(reportedException.stateString);
result.setCounters(TypeConverter.toYarn(getCounters()));
result.setContainerId(this.getAssignedContainerID());
result.setNodeManagerHost(trackerName);
result.setNodeManagerHttpPort(httpPort);
if (this.container != null) {
    result.setNodeManagerPort(this.container.getNodeId().getPort());
}
return result;
} finally {
    readLock.unlock();
}
}

```

```

@Override
public List<String> getDiagnostics() {
    List<String> result = new ArrayList<String>();
    readLock.lock();
    try {
        result.addAll(diagnostics);
        return result;
    } finally {
        readLock.unlock();
    }
}

```

```

@Override
public Counters getCounters() {
    readLock.lock();
    try {
        Counters counters = reportedStatus.counters;
        if (counters == null) {
            counters = EMPTY_COUNTERS;
        }
        return counters;
    } finally {
        readLock.unlock();
    }
}

```

```

@Override
public float getProgress() {
    readLock.lock();

```

```

try {
    return reportedStatus.progress;
} finally {
    readLock.unlock();
}
}

@Override
public Phase getPhase() {
    readLock.lock();
    try {
        return reportedStatus.phase;
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskAttemptState getState() {
    readLock.lock();
    try {
        return getExternalState(stateMachine.getCurrentState());
    } finally {
        readLock.unlock();
    }
}

@SuppressWarnings("unchecked")
@Override
public void handle(TaskAttemptEvent event) {
    if (LOG.isDebugEnabled()) {
        LOG.debug("Processing " + event.getTaskAttemptID() + " of type "
            + event.getType());
    }
    writeLock.lock();
    try {
        final TaskAttemptStateInternal oldState = getInternalState() ;
        try {
            stateMachine.doTransition(event.getType(), event);
        } catch (InvalidStateTransitionException e) {
            LOG.error("Can't handle this event at current state for "
                + this.attemptId, e);
            eventHandler.handle(new JobDiagnosticsUpdateEvent(
                this.attemptId.getTaskId().getJobId(), "Invalid event " + event.getType() +
                " on TaskAttempt " + this.attemptId));
            eventHandler.handle(new JobEvent(this.attemptId.getTaskId().getJobId(),
                JobEventType.INTERNAL_ERROR));
        }
    }
}

```

```

    if (oldState != getInternalState()) {
        LOG.info(attemptId + " TaskAttempt Transitioned from "
            + oldState + " to "
            + getInternalState());
    }
} finally {
    writeLock.unlock();
}
}

@VisibleForTesting
public TaskAttemptStateInternal getInternalState() {
    readLock.lock();
    try {
        return stateMachine.getCurrentState();
    } finally {
        readLock.unlock();
    }
}

public Locality getLocality() {
    return locality;
}

public void setLocality(Locality locality) {
    this.locality = locality;
}

public Avataar getAvataar()
{
    return avataar;
}

public void setAvataar(Avataar avataar) {
    this.avataar = avataar;
}

@SuppressWarnings("unchecked")
public TaskAttemptStateInternal recover(TaskAttemptInfo taInfo,
    OutputCommitter committer, boolean recoverOutput) {
    ContainerId containerId = taInfo.getContainerId();
    NodeId containerNodeId = ConverterUtils.toNodeId(taInfo.getHostname() + ":"
        + taInfo.getPort());
    String nodeHttpAddress = StringInterner.weakIntern(taInfo.getHostname() + ":"
        + taInfo.getHttpPort());
    // Resource/Priority/Tokens are only needed while launching the container on
    // an NM, these are already completed tasks, so setting them to null
    container =

```



```

    Container.newInstance(containerId, containerNodeId,
        nodeHttpAddress, null, null, null);
computeRackAndLocality();
launchTime = taInfo.getStartTime();
finishTime = (taInfo.getFinishTime() != -1) ?
    taInfo.getFinishTime() : clock.getTime();
shufflePort = taInfo.getShufflePort();
trackerName = taInfo.getHostname();
httpPort = taInfo.getHttpPort();
sendLaunchedEvents();

reportedStatus.id = attemptId;
reportedStatus.progress = 1.0f;
reportedStatus.counters = taInfo.getCounters();
reportedStatus.stateString = taInfo.getState();
reportedStatus.phase = Phase.CLEANUP;
reportedStatus.mapFinishTime = taInfo.getMapFinishTime();
reportedStatus.shuffleFinishTime = taInfo.getShuffleFinishTime();
reportedStatus.sortFinishTime = taInfo.getSortFinishTime();
addDiagnosticInfo(taInfo.getError());

boolean needToClean = false;
String recoveredState = taInfo.getTaskStatus();
if (recoverOutput
    && TaskAttemptState.SUCCEEDED.toString().equals(recoveredState)) {
    TaskAttemptContext tac = new TaskAttemptContextImpl(conf,
        TypeConverter.fromYarn(attemptId));
    try {
        committer.recoverTask(tac);
        LOG.info("Recovered output from task attempt " + attemptId);
    } catch (Exception e) {
        LOG.error("Unable to recover task attempt " + attemptId, e);
        LOG.info("Task attempt " + attemptId + " will be recovered as KILLED");
        recoveredState = TaskAttemptState.KILLED.toString();
        needToClean = true;
    }
}

TaskAttemptStateInternal attemptState;
if (TaskAttemptState.SUCCEEDED.toString().equals(recoveredState)) {
    attemptState = TaskAttemptStateInternal.SUCCEEDED;
    reportedStatus.taskState = TaskAttemptState.SUCCEEDED;
    eventHandler.handle(createJobCounterUpdateEventTASucceeded(this));
    logAttemptFinishedEvent(attemptState);
} else if (TaskAttemptState.FAILED.toString().equals(recoveredState)) {
    attemptState = TaskAttemptStateInternal.FAILED;
    reportedStatus.taskState = TaskAttemptState.FAILED;
    eventHandler.handle(createJobCounterUpdateEventTAFailed(this, false));
}

```

```

TaskAttemptUnsuccessfulCompletionEvent tauce =
    createTaskAttemptUnsuccessfulCompletionEvent(this,
        TaskAttemptStateInternal.FAILED);
eventHandler.handle(
    new JobHistoryEvent(attemptId.getTaskId().getJobId(), tauce));
} else {
if (!TaskAttemptState.KILLED.toString().equals(recoveredState)) {
    if (String.valueOf(recoveredState).isEmpty()) {
        LOG.info("TaskAttempt" + attemptId
            + " had not completed, recovering as KILLED");
    } else {
        LOG.warn("TaskAttempt " + attemptId + " found in unexpected state "
            + recoveredState + ", recovering as KILLED");
    }
    addDiagnosticInfo("Killed during application recovery");
    needToClean = true;
}
attemptState = TaskAttemptStateInternal.KILLED;
reportedStatus.taskState = TaskAttemptState.KILLED;
eventHandler.handle(createJobCounterUpdateEventTAKilled(this, false));
TaskAttemptUnsuccessfulCompletionEvent tauce =
    createTaskAttemptUnsuccessfulCompletionEvent(this,
        TaskAttemptStateInternal.KILLED);
eventHandler.handle(
    new JobHistoryEvent(attemptId.getTaskId().getJobId(), tauce));
}

if (needToClean) {
    TaskAttemptContext tac = new TaskAttemptContextImpl(conf,
        TypeConverter.fromYarn(attemptId));
    try {
        committer.abortTask(tac);
    } catch (Exception e) {
        LOG.warn("Task cleanup failed for attempt " + attemptId, e);
    }
}

return attemptState;
}

private static TaskAttemptState getExternalState(
    TaskAttemptStateInternal smState) {
    switch (smState) {
    case ASSIGNED:
    case UNASSIGNED:
        return TaskAttemptState.STARTING;
    case COMMIT_PENDING:
        return TaskAttemptState.COMMIT_PENDING;
    }
}

```

```

case FAILED:
    return TaskAttemptState.FAILED;
case KILLED:
    return TaskAttemptState.KILLED;
// All CLEANUP states considered as RUNNING since events have not gone out
// to the Task yet. May be possible to consider them as a Finished state.
case FAIL_CONTAINER_CLEANUP:
case FAIL_TASK_CLEANUP:
case KILL_CONTAINER_CLEANUP:
case KILL_TASK_CLEANUP:
case SUCCESS_CONTAINER_CLEANUP:
case RUNNING:
    return TaskAttemptState.RUNNING;
case NEW:
    return TaskAttemptState.NEW;
case SUCCEEDED:
    return TaskAttemptState.SUCCEEDED;
default:
    throw new YarnRuntimeException("Attempt to convert invalid "
        + "stateMachineTaskAttemptState to externalTaskAttemptState: "
        + smState);
}
}

//always called in write lock
private void setFinishTime() {
    //set the finish time only if launch time is set
    if (launchTime != 0) {
        finishTime = clock.getTime();
    }
}

private void computeRackAndLocality() {
    NodeId containerNodeId = container.getNodeId();
    nodeRackName = RackResolver.resolve(
        containerNodeId.getHost()).getNetworkLocation();

    locality = Locality.OFF_SWITCH;
    if (dataLocalHosts.size() > 0) {
        String cHost = resolveHost(containerNodeId.getHost());
        if (dataLocalHosts.contains(cHost)) {
            locality = Locality.NODE_LOCAL;
        }
    }
    if (locality == Locality.OFF_SWITCH) {
        if (dataLocalRacks.contains(nodeRackName)) {
            locality = Locality.RACK_LOCAL;
        }
    }
}

```

```

    }
}

private static long computeSlotMillis(TaskAttemptImpl taskAttempt) {
    TaskType taskType = taskAttempt.getID().getTaskId().getTaskType();
    int slotMemoryReq =
        taskAttempt.getMemoryRequired(taskAttempt.conf, taskType);

    int minSlotMemSize = taskAttempt.conf.getInt(
        YarnConfiguration.RM_SCHEDULER_MINIMUM_ALLOCATION_MB,
        YarnConfiguration.DEFAULT_RM_SCHEDULER_MINIMUM_ALLOCATION_MB);

    int simSlotsRequired =
        minSlotMemSize == 0 ? 0 : (int) Math.ceil((float) slotMemoryReq
            / minSlotMemSize);

    long slotMillisIncrement =
        simSlotsRequired
        * (taskAttempt.getFinishTime() - taskAttempt.getLaunchTime());
    return slotMillisIncrement;
}

private static JobCounterUpdateEvent createJobCounterUpdateEventTASucceeded(
    TaskAttemptImpl taskAttempt) {
    long slotMillis = computeSlotMillis(taskAttempt);
    TaskId taskId = taskAttempt.attemptId.getTaskId();
    JobCounterUpdateEvent jce = new JobCounterUpdateEvent(taskId.getJobId());
    jce.addCounterUpdate(
        taskId.getTaskType() == TaskType.MAP ?
            JobCounter.SLOTS_MILLIS_MAPS : JobCounter.SLOTS_MILLIS_REDUCES,
        slotMillis);
    return jce;
}

private static JobCounterUpdateEvent createJobCounterUpdateEventTAFailed(
    TaskAttemptImpl taskAttempt, boolean taskAlreadyCompleted) {
    TaskType taskType = taskAttempt.getID().getTaskId().getTaskType();
    JobCounterUpdateEvent jce = new JobCounterUpdateEvent(taskAttempt.getID().getTaskId().getJobId());

    long slotMillisIncrement = computeSlotMillis(taskAttempt);

    if (taskType == TaskType.MAP) {
        jce.addCounterUpdate(JobCounter.NUM_FAILED_MAPS, 1);
        if (!taskAlreadyCompleted) {
            // dont double count the elapsed time
            jce.addCounterUpdate(JobCounter.SLOTS_MILLIS_MAPS, slotMillisIncrement);
        }
    } else {

```

```

jce.addCounterUpdate(JobCounter.NUM_FAILED_REDUCEES, 1);
if(!taskAlreadyCompleted) {
    // dont double count the elapsed time
    jce.addCounterUpdate(JobCounter.SLOTS_MILLIS_REDUCEES, slotMillisIncrement);
}
}
return jce;
}

private static JobCounterUpdateEvent createJobCounterUpdateEventTAKilled(
    TaskAttemptImpl taskAttempt, boolean taskAlreadyCompleted) {
    TaskType taskType = taskAttempt.getID().getTaskId().getTaskType();
    JobCounterUpdateEvent jce = new JobCounterUpdateEvent(taskAttempt.getID().getTaskId().getJobId());

    long slotMillisIncrement = computeSlotMillis(taskAttempt);

    if (taskType == TaskType.MAP) {
        jce.addCounterUpdate(JobCounter.NUM_KILLED_MAPS, 1);
        if(!taskAlreadyCompleted) {
            // dont double count the elapsed time
            jce.addCounterUpdate(JobCounter.SLOTS_MILLIS_MAPS, slotMillisIncrement);
        }
    } else {
        jce.addCounterUpdate(JobCounter.NUM_KILLED_REDUCEES, 1);
        if(!taskAlreadyCompleted) {
            // dont double count the elapsed time
            jce.addCounterUpdate(JobCounter.SLOTS_MILLIS_REDUCEES, slotMillisIncrement);
        }
    }
    return jce;
}

private static
    TaskAttemptUnsuccessfulCompletionEvent
createTaskAttemptUnsuccessfulCompletionEvent(TaskAttemptImpl taskAttempt,
    TaskAttemptStateInternal attemptState) {
    TaskAttemptUnsuccessfulCompletionEvent tauce =
        new TaskAttemptUnsuccessfulCompletionEvent(
            TypeConverter.fromYarn(taskAttempt.attemptId),
            TypeConverter.fromYarn(taskAttempt.attemptId.getTaskId()
                .getTaskType()), attemptState.toString(),
            taskAttempt.finishTime,
            taskAttempt.container == null ? "UNKNOWN"
                : taskAttempt.container.getNodeId().getHost(),
            taskAttempt.container == null ? -1
                : taskAttempt.container.getNodeId().getPort(),
            taskAttempt.nodeRackName == null ? "UNKNOWN"
                : taskAttempt.nodeRackName,

```

```

        StringUtils.join(
            LINE_SEPARATOR, taskAttempt.getDiagnostics(),
            taskAttempt.getCounters(), taskAttempt
                .getProgressSplitBlock().burst());
    return tauce;
}

@SuppressWarnings("unchecked")
private void sendLaunchedEvents() {
    JobCounterUpdateEvent jce = new JobCounterUpdateEvent(attemptId.getTaskId()
        .getJobId());
    jce.addCounterUpdate(attemptId.getTaskId().getTaskType() == TaskType.MAP ?
        JobCounter.TOTAL_LAUNCHED_MAPS : JobCounter.TOTAL_LAUNCHED_REDUCEES, 1);
    eventHandler.handle(jce);

    LOG.info("TaskAttempt: [" + attemptId
        + "] using containerId: [" + container.getId() + " on NM: ["
        + StringInterner.weakIntern(container.getNodeId().toString()) + "]);
    TaskAttemptStartedEvent tase =
        new TaskAttemptStartedEvent(TypeConverter.fromYarn(attemptId),
            TypeConverter.fromYarn(attemptId.getTaskId().getTaskType()),
            launchTime, trackerName, httpPort, shufflePort, container.getId(),
            locality.toString(), avataar.toString());
    eventHandler.handle(
        new JobHistoryEvent(attemptId.getTaskId().getJobId(), tase));
}

private WrappedProgressSplitsBlock getProgressSplitBlock() {
    readLock.lock();
    try {
        if (progressSplitBlock == null) {
            progressSplitBlock = new WrappedProgressSplitsBlock(conf.getInt(
                MRJobConfig.MR_AM_NUM_PROGRESS_SPLITS,
                MRJobConfig.DEFAULT_MR_AM_NUM_PROGRESS_SPLITS));
        }
        return progressSplitBlock;
    } finally {
        readLock.unlock();
    }
}

private void updateProgressSplits() {
    double newProgress = reportedStatus.progress;
    newProgress = Math.max(Math.min(newProgress, 1.0D), 0.0D);
    Counters counters = reportedStatus.counters;
    if (counters == null)
        return;
}

```

```

WrappedProgressSplitsBlock splitsBlock = getProgressSplitBlock();
if (splitsBlock != null) {
    long now = clock.getTime();
    long start = getLaunchTime(); // TODO Ensure not 0

    if (start != 0 && now - start <= Integer.MAX_VALUE) {
        splitsBlock.getProgressWallclockTime().extend(newProgress,
            (int) (now - start));
    }

    Counter cpuCounter = counters.findCounter(TaskCounter.CPU_MILLISECONDS);
    if (cpuCounter != null && cpuCounter.getValue() <= Integer.MAX_VALUE) {
        splitsBlock.getProgressCPUTime().extend(newProgress,
            (int) cpuCounter.getValue()); // long to int? TODO: FIX. Same below
    }

    Counter virtualBytes = counters
        .findCounter(TaskCounter.VIRTUAL_MEMORY_BYTES);
    if (virtualBytes != null) {
        splitsBlock.getProgressVirtualMemoryKbytes().extend(newProgress,
            (int) (virtualBytes.getValue() / (MEMORY_SPLITS_RESOLUTION)));
    }

    Counter physicalBytes = counters
        .findCounter(TaskCounter.PHYSICAL_MEMORY_BYTES);
    if (physicalBytes != null) {
        splitsBlock.getProgressPhysicalMemoryKbytes().extend(newProgress,
            (int) (physicalBytes.getValue() / (MEMORY_SPLITS_RESOLUTION)));
    }
}

static class RequestContainerTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    private final boolean rescheduled;
    public RequestContainerTransition(boolean rescheduled) {
        this.rescheduled = rescheduled;
    }
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        // Tell any speculator that we're requesting a container
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent(taskAttempt.getID().getTaskId(), +1));
        //request for container
        if (rescheduled) {
            taskAttempt.eventHandler.handle(

```

```

        ContainerRequestEvent.createContainerRequestEventForFailedContainer(
            taskAttempt.attemptId,
            taskAttempt.resourceCapability));
    } else {
        taskAttempt.eventHandler.handle(new ContainerRequestEvent(
            taskAttempt.attemptId, taskAttempt.resourceCapability,
            taskAttempt.dataLocalHosts.toArray(
                new String[taskAttempt.dataLocalHosts.size()]),
            taskAttempt.dataLocalRacks.toArray(
                new String[taskAttempt.dataLocalRacks.size()]));)
    }
}
}
}

```

```

protected Set<String> resolveHosts(String[] src) {
    Set<String> result = new HashSet<String>();
    if (src != null) {
        for (int i = 0; i < src.length; i++) {
            if (src[i] == null) {
                continue;
            } else if (isIP(src[i])) {
                result.add(resolveHost(src[i]));
            } else {
                result.add(src[i]);
            }
        }
    }
    return result;
}

```

```

protected String resolveHost(String src) {
    String result = src; // Fallback in case of failure.
    try {
        InetAddress addr = InetAddress.getByName(src);
        result = addr.getHostByName();
    } catch (UnknownHostException e) {
        LOG.warn("Failed to resolve address: " + src
            + ". Continuing to use the same.");
    }
    return result;
}

```

```

private static final Pattern ipPattern = // Pattern for matching ip
    Pattern.compile("\\d{1,3}\\.\\d{1,3}\\.\\d{1,3}\\.\\d{1,3}");

```

```

protected boolean isIP(String src) {
    return ipPattern.matcher(src).matches();
}

```



```

private static class ContainerAssignedTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings({ "unchecked" })
    @Override
    public void transition(final TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        final TaskAttemptContainerAssignedEvent cEvent =
            (TaskAttemptContainerAssignedEvent) event;
        Container container = cEvent.getContainer();
        taskAttempt.container = container;
        // this is a _real_ Task (classic Hadoop mapred flavor):
        taskAttempt.remoteTask = taskAttempt.createRemoteTask();
        taskAttempt.jvmID =
            new WrappedJvmID(taskAttempt.remoteTask.getTaskID().getJobID(),
                taskAttempt.remoteTask.isMapTask(), taskAttempt.container.getId()
                    .getId());
        taskAttempt.taskAttemptListener.registerPendingTask(
            taskAttempt.remoteTask, taskAttempt.jvmID);

        taskAttempt.computeRackAndLocality();

        //launch the container
        //create the container object to be launched for a given Task attempt
        ContainerLaunchContext launchContext = createContainerLaunchContext(
            cEvent.getApplicationACLs(), taskAttempt.conf, taskAttempt.jobToken,
            taskAttempt.remoteTask, taskAttempt.oldJobId, taskAttempt.jvmID,
            taskAttempt.taskAttemptListener, taskAttempt.credentials);
        taskAttempt.eventHandler
            .handle(new ContainerRemoteLaunchEvent(taskAttempt.attemptId,
                launchContext, container, taskAttempt.remoteTask));

        // send event to speculator that our container needs are satisfied
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent(taskAttempt.getID().getTaskId(), -1));
    }
}

private static class DeallocateContainerTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    private final TaskAttemptStateInternal finalState;
    private final boolean withdrawsContainerRequest;
    DeallocateContainerTransition
        (TaskAttemptStateInternal finalState, boolean withdrawsContainerRequest) {
        this.finalState = finalState;
        this.withdrawsContainerRequest = withdrawsContainerRequest;
    }
    @SuppressWarnings("unchecked")

```

```

@Override
public void transition(TaskAttemptImpl taskAttempt,
    TaskAttemptEvent event) {
    //set the finish time
    taskAttempt.setFinishTime();
    //send the deallocate event to ContainerAllocator
    taskAttempt.eventHandler.handle(
        new ContainerAllocatorEvent(taskAttempt.attemptId,
            ContainerAllocator.EventType.CONTAINER_DEALLOCATE));

    // send event to speculator that we withdraw our container needs, if
    // we're transitioning out of UNASSIGNED
    if (withdrawsContainerRequest) {
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent(taskAttempt.getID().getTaskId(), -1));
    }

    switch(finalState) {
    case FAILED:
        taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
            taskAttempt.attemptId,
            TaskEventType.T_ATTEMPT_FAILED));
        break;
    case KILLED:
        taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
            taskAttempt.attemptId,
            TaskEventType.T_ATTEMPT_KILLED));
        break;
    default:
        LOG.error("Task final state is not FAILED or KILLED: " + finalState);
    }
    if (taskAttempt.getLaunchTime() != 0) {
        TaskAttemptUnsuccessfulCompletionEvent tauce =
            createTaskAttemptUnsuccessfulCompletionEvent(taskAttempt,
                finalState);
        if(finalState == TaskAttemptStateInternal.FAILED) {
            taskAttempt.eventHandler
                .handle(createJobCounterUpdateEventTAFailed(taskAttempt, false));
        } else if(finalState == TaskAttemptStateInternal.KILLED) {
            taskAttempt.eventHandler
                .handle(createJobCounterUpdateEventTAKilled(taskAttempt, false));
        }
        taskAttempt.eventHandler.handle(new JobHistoryEvent(
            taskAttempt.attemptId.getTaskId().getJobId(), tauce));
    } else {
        LOG.debug("Not generating HistoryFinish event since start event not " +
            "generated for taskAttempt: " + taskAttempt.getID());
    }
}

```

```

    }
}

private static class LaunchedContainerTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent evt) {

        TaskAttemptContainerLaunchedEvent event =
            (TaskAttemptContainerLaunchedEvent) evt;

        //set the launch time
        taskAttempt.launchTime = taskAttempt.clock.getTime();
        taskAttempt.shufflePort = event.getShufflePort();

        // register it to TaskAttemptListener so that it can start monitoring it.
        taskAttempt.taskAttemptListener
            .registerLaunchedTask(taskAttempt.attemptId, taskAttempt.jvmID);
        //TODO Resolve to host / IP in case of a local address.
        InetSocketAddress nodeHttpInetAddr = // TODO: Costly to create sock-addr?
            NetUtils.createSocketAddr(taskAttempt.container.getNodeHttpAddress());
        taskAttempt.trackerName = nodeHttpInetAddr.getHostName();
        taskAttempt.httpPort = nodeHttpInetAddr.getPort();
        taskAttempt.sendLaunchedEvents();
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent
                (taskAttempt.attemptId, true, taskAttempt.clock.getTime()));
        //make remoteTask reference as null as it is no more needed
        //and free up the memory
        taskAttempt.remoteTask = null;

        //tell the Task that attempt has started
        taskAttempt.eventHandler.handle(new TaskAttemptEvent(
            taskAttempt.attemptId,
            TaskEventType.T_ATTEMPT_LAUNCHED));
    }
}

```

```

private static class CommitPendingTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        taskAttempt.eventHandler.handle(new TaskAttemptEvent(
            taskAttempt.attemptId,

```

```

        TaskEventType.T_ATTEMPT_COMMIT_PENDING));
    }
}

private static class TaskCleanupTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        TaskAttemptContext taskContext =
            new TaskAttemptContextImpl(taskAttempt.conf,
                TypeConverter.fromYarn(taskAttempt.attemptId));
        taskAttempt.eventHandler.handle(new CommitterTaskAbortEvent(
            taskAttempt.attemptId, taskContext));
    }
}

private static class SucceededTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        //set the finish time
        taskAttempt.setFinishTime();
        taskAttempt.eventHandler.handle(
            createJobCounterUpdateEventTASucceeded(taskAttempt));
        taskAttempt.logAttemptFinishedEvent(TaskAttemptStateInternal.SUCCEEDED);
        taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
            taskAttempt.attemptId,
            TaskEventType.T_ATTEMPT_SUCCEEDED));
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent
                (taskAttempt.reportedStatus, taskAttempt.clock.getTime()));
    }
}

private static class FailedTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) {
        // set the finish time
        taskAttempt.setFinishTime();

        if (taskAttempt.getLaunchTime() != 0) {
            taskAttempt.eventHandler

```

```

        .handle(createJobCounterUpdateEventTAFailed(taskAttempt, false));
TaskAttemptUnsuccessfulCompletionEvent tauce =
    createTaskAttemptUnsuccessfulCompletionEvent(taskAttempt,
        TaskAttemptStateInternal.FAILED);
taskAttempt.eventHandler.handle(new JobHistoryEvent(
    taskAttempt.attemptId().getTaskId().getJobId(), tauce));
// taskAttempt.logAttemptFinishedEvent(TaskAttemptStateInternal.FAILED); Not
// handling failed map/reduce events.
} else {
    LOG.debug("Not generating HistoryFinish event since start event not " +
        "generated for taskAttempt: " + taskAttempt.getID());
}
taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
    taskAttempt.attemptId, TaskEventType.T_ATTEMPT_FAILED));
}
}

```

private static class RecoverTransition implements

```

    MultipleArcTransition<TaskAttemptImpl, TaskAttemptEvent, TaskAttemptStateInternal> {

    @Override
    public TaskAttemptStateInternal transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        TaskAttemptRecoverEvent tare = (TaskAttemptRecoverEvent) event;
        return taskAttempt.recover(tare.getTaskAttemptInfo(),
            tare.getCommitter(), tare.getRecoverOutput());
    }
}

```

```

@SuppressWarnings({ "unchecked" })
private void logAttemptFinishedEvent(TaskAttemptStateInternal state) {
    //Log finished events only if an attempt started.
    if (getLaunchTime() == 0) return;
    String containerHostName = this.container == null ? "UNKNOWN"
        : this.container.getNodeId().getHost();
    int containerNodePort =
        this.container == null ? -1 : this.container.getNodeId().getPort();
    if (attemptId.getTaskId().getTaskType() == TaskType.MAP) {
        MapAttemptFinishedEvent mfe =
            new MapAttemptFinishedEvent(TypeConverter.fromYarn(attemptId),
                TypeConverter.fromYarn(attemptId.getTaskId().getTaskType()),
                state.toString(),
                this.reportedStatus.mapFinishTime,
                finishTime,
                containerHostName,
                containerNodePort,
                this.nodeRackName == null ? "UNKNOWN" : this.nodeRackName,
                this.reportedStatus.stateString,
    }
}

```

```

    getCounters(),
    getProgressSplitBlock().burst());
    eventHandler.handle(
        new JobHistoryEvent(attemptId.getTaskId().getJobId(), mfe));
} else {
    ReduceAttemptFinishedEvent rfe =
        new ReduceAttemptFinishedEvent(TypeConverter.fromYarn(attemptId),
            TypeConverter.fromYarn(attemptId.getTaskId().getTaskType()),
            state.toString(),
            this.reportedStatus.shuffleFinishTime,
            this.reportedStatus.sortFinishTime,
            finishTime,
            containerHostName,
            containerNodePort,
            this.nodeRackName == null ? "UNKNOWN" : this.nodeRackName,
            this.reportedStatus.stateString,
            getCounters(),
            getProgressSplitBlock().burst());
    eventHandler.handle(
        new JobHistoryEvent(attemptId.getTaskId().getJobId(), rfe));
}
}
}

```

```

private static class TooManyFetchFailureTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) {
        // too many fetch failure can only happen for map tasks
        Preconditions
            .checkArgument(taskAttempt.getID().getTaskId().getTaskType() == TaskType.MAP);
        //add to diagnostic
        taskAttempt.addDiagnosticInfo("Too Many fetch failures.Failing the attempt");
        //set the finish time
        taskAttempt.setFinishTime();

        if (taskAttempt.getLaunchTime() != 0) {
            taskAttempt.eventHandler
                .handle(createJobCounterUpdateEventTAFailed(taskAttempt, true));
            TaskAttemptUnsuccessfulCompletionEvent tauce =
                createTaskAttemptUnsuccessfulCompletionEvent(taskAttempt,
                    TaskAttemptStateInternal.FAILED);
            taskAttempt.eventHandler.handle(new JobHistoryEvent(
                taskAttempt.attemptId.getTaskId().getJobId(), tauce));
        } else {
            LOG.debug("Not generating HistoryFinish event since start event not " +
                "generated for taskAttempt: " + taskAttempt.getID());
        }
    }
}

```

```

    taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
        taskAttempt.attemptId, TaskEventType.T_ATTEMPT_FAILED));
}
}

private static class KilledAfterSuccessTransition implements
    MultipleArcTransition<TaskAttemptImpl, TaskAttemptEvent, TaskAttemptStateInternal> {

    @SuppressWarnings("unchecked")
    @Override
    public TaskAttemptStateInternal transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        if(taskAttempt.getID().getTaskId().getTaskType() == TaskType.REDUCE) {
            // after a reduce task has succeeded, its outputs are in safe in HDFS.
            // logically such a task should not be killed. we only come here when
            // there is a race condition in the event queue. E.g. some logic sends
            // a kill request to this attempt when the successful completion event
            // for this task is already in the event queue. so the kill event will
            // get executed immediately after the attempt is marked successful and
            // result in this transition being exercised.
            // ignore this for reduce tasks
            LOG.info("Ignoring killed event for successful reduce task attempt" +
                taskAttempt.getID().toString());
            return TaskAttemptStateInternal.SUCCEEDED;
        }
        if(event instanceof TaskAttemptKillEvent) {
            TaskAttemptKillEvent msgEvent = (TaskAttemptKillEvent) event;
            //add to diagnostic
            taskAttempt.addDiagnosticInfo(msgEvent.getMessage());
        }

        // not setting a finish time since it was set on success
        assert (taskAttempt.getFinishTime() != 0);

        assert (taskAttempt.getLaunchTime() != 0);
        taskAttempt.eventHandler
            .handle(createJobCounterUpdateEventTAKilled(taskAttempt, true));
        TaskAttemptUnsuccessfulCompletionEvent tauce = createTaskAttemptUnsuccessfulCompletionEvent(
            taskAttempt, TaskAttemptStateInternal.KILLED);
        taskAttempt.eventHandler.handle(new JobHistoryEvent(taskAttempt.attemptId
            .getTaskId().getJobId(), tauce));
        taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
            taskAttempt.attemptId, TaskEventType.T_ATTEMPT_KILLED));
        return TaskAttemptStateInternal.KILLED;
    }
}

private static class KilledTransition implements

```

```

SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {

@SuppressWarnings("unchecked")
@Override
public void transition(TaskAttemptImpl taskAttempt,
    TaskAttemptEvent event) {
    //set the finish time
    taskAttempt.setFinishTime();
    if (taskAttempt.getLaunchTime() != 0) {
        taskAttempt.eventHandler
            .handle(createJobCounterUpdateEventTAKilled(taskAttempt, false));
        TaskAttemptUnsuccessfulCompletionEvent tauce =
            createTaskAttemptUnsuccessfulCompletionEvent(taskAttempt,
                TaskAttemptStateInternal.KILLED);
        taskAttempt.eventHandler.handle(new JobHistoryEvent(
            taskAttempt.attemptId.getTaskId().getJobId(), tauce));
    }else {
        LOG.debug("Not generating HistoryFinish event since start event not " +
            "generated for taskAttempt: " + taskAttempt.getID());
    }
}
// taskAttempt.logAttemptFinishedEvent(TaskAttemptStateInternal.KILLED); Not logging Map/Reduce attempts
in case of failure.
    taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
        taskAttempt.attemptId,
        TaskEventType.T_ATTEMPT_KILLED));
}
}

private static class CleanupContainerTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
@SuppressWarnings("unchecked")
@Override
public void transition(TaskAttemptImpl taskAttempt,
    TaskAttemptEvent event) {
    // unregister it to TaskAttemptListener so that it stops listening
    // for it
    taskAttempt.taskAttemptListener.unregister(
        taskAttempt.attemptId, taskAttempt.jvmID);
    taskAttempt.reportedStatus.progress = 1.0f;
    taskAttempt.updateProgressSplits();
    //send the cleanup event to containerLauncher
    taskAttempt.eventHandler.handle(new ContainerLauncherEvent(
        taskAttempt.attemptId,
        taskAttempt.container.getId(), StringInternern
            .weakIntern(taskAttempt.container.getNodeId().toString()),
        taskAttempt.container.getContainerToken(),
        ContainerLauncher.EventType.CONTAINER_REMOTE_CLEANUP));
}
}

```



```

}

private void addDiagnosticInfo(String diag) {
    if (diag != null && !diag.equals("")) {
        diagnostics.add(diag);
    }
}

private static class StatusUpdater
    implements SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        // Status update calls don't really change the state of the attempt.
        TaskAttemptStatus newReportedStatus =
            ((TaskAttemptStatusUpdateEvent) event)
                .getReportedTaskAttemptStatus();
        // Now switch the information in the reportedStatus
        taskAttempt.reportedStatus = newReportedStatus;
        taskAttempt.reportedStatus.taskState = taskAttempt.getState();

        // send event to speculator about the reported status
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent
                (taskAttempt.reportedStatus, taskAttempt.clock.getTime()));

        taskAttempt.updateProgressSplits();

        //if fetch failures are present, send the fetch failure event to job
        //this only will happen in reduce attempt type
        if (taskAttempt.reportedStatus.fetchFailedMaps != null &&
            taskAttempt.reportedStatus.fetchFailedMaps.size() > 0) {
            taskAttempt.eventHandler.handle(new JobTaskAttemptFetchFailureEvent(
                taskAttempt.attemptId, taskAttempt.reportedStatus.fetchFailedMaps));
        }
    }
}

private static class DiagnosticInformationUpdater
    implements SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        TaskAttemptDiagnosticsUpdateEvent diagEvent =
            (TaskAttemptDiagnosticsUpdateEvent) event;
        LOG.info("Diagnostics report from " + taskAttempt.attemptId + ": "
            + diagEvent.getDiagnosticInfo());
    }
}

```

```

        taskAttempt.addDiagnosticInfo(diagEvent.getDiagnosticInfo());
    }
}

private void initTaskAttemptStatus(TaskAttemptStatus result) {
    result.progress = 0.0f;
    result.phase = Phase.STARTING;
    result.stateString = "NEW";
    result.taskState = TaskAttemptState.NEW;
    Counters counters = EMPTY_COUNTERS;
    result.counters = counters;
}

}

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 */
package org.apache.hadoop.mapreduce.v2.app.job.event;

import org.apache.hadoop.mapreduce.v2.api.records.JobId;

public class JobCommitCompletedEvent extends JobEvent {

    public JobCommitCompletedEvent(JobId jobId) {
        super(jobID, JobEventType.JOB_COMMIT_COMPLETED);
    }
}

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```

```

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*/

```

```
package org.apache.hadoop.mapreduce.v2.app.job.event;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEvent;
```

```
public class JobTaskAttemptCompletedEvent extends JobEvent {
```

```
    private TaskAttemptCompletionEvent completionEvent;
```

```
    public JobTaskAttemptCompletedEvent(TaskAttemptCompletionEvent completionEvent) {
        super(completionEvent.getAttemptId().getTaskId().getJobId(),
            JobEventType.JOB_TASK_ATTEMPT_COMPLETED);
        this.completionEvent = completionEvent;
    }

```

```
    public TaskAttemptCompletionEvent getCompletionEvent() {
        return completionEvent;
    }
}

```

```
/**
```

```

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*/

```

```

package org.apache.hadoop.mapreduce.v2.app.job.event;

import org.apache.hadoop.mapreduce.v2.api.records.JobId;

public class JobSetupCompletedEvent extends JobEvent {

    public JobSetupCompletedEvent(JobId jobId) {
        super(jobID, JobEventType.JOB_SETUP_COMPLETED);
    }
}
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 */

package org.apache.hadoop.mapreduce.v2.app.job.event;

import org.apache.hadoop.mapreduce.JobStatus;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;

public class JobAbortCompletedEvent extends JobEvent {

    private JobStatus.State finalState;

    public JobAbortCompletedEvent(JobId jobId, JobStatus.State finalState) {
        super(jobID, JobEventType.JOB_ABORT_COMPLETED);
        this.finalState = finalState;
    }

    public JobStatus.State getFinalState() {
        return finalState;
    }
}

```

# 1.242 hadoop-mapreduce-client-common

## 2.2.0

### 1.242.1 Available under license :

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 */
```

```
package org.apache.hadoop.mapreduce.v2.api.impl.pb.service;
```

```
import org.apache.hadoop.mapreduce.v2.api.HSClientProtocol;
import org.apache.hadoop.mapreduce.v2.api.HSClientProtocolPB;
```

```
public class HSClientProtocolPBServiceImpl extends MRClientProtocolPBServiceImpl
implements HSClientProtocolPB {
    public HSClientProtocolPBServiceImpl(HSClientProtocol impl) {
        super(impl);
    }
}
```

```
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- \*/

```
package org.apache.hadoop.mapreduce.v2.api.impl.pb.service;
```

```
import java.io.IOException;
```

```
import org.apache.hadoop.mapreduce.v2.api.MRClientProtocol;
import org.apache.hadoop.mapreduce.v2.api.MRClientProtocolPB;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.CancelDelegationTokenResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.FailTaskAttemptRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.FailTaskAttemptResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetCountersRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetCountersResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDelegationTokenRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDiagnosticsRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDiagnosticsResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetJobReportResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptCompletionEventsRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptCompletionEventsResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptReportRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptReportResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportsRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportsResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillJobRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillJobResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskAttemptRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskAttemptResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.RenewDelegationTokenResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.CancelDelegationTokenRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.CancelDelegationTokenResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.FailTaskAttemptRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.FailTaskAttemptResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetCountersRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetCountersResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetDelegationTokenRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetDelegationTokenResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetDiagnosticsRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetDiagnosticsResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetJobReportRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetJobReportResponsePBImp;
```

```

import
org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskAttemptCompletionEventsRequestPBImp;
import
org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskAttemptCompletionEventsResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskAttemptReportRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskAttemptReportResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskReportRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskReportResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskReportsRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskReportsResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillJobRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillJobResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillTaskAttemptRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillTaskAttemptResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillTaskRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillTaskResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.RenewDelegationTokenRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.RenewDelegationTokenResponsePBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.FailTaskAttemptRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.FailTaskAttemptResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetCountersRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetCountersResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetDiagnosticsRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetDiagnosticsResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetJobReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetJobReportResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptCompletionEventsRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptCompletionEventsResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptReportResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportsRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportsResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillJobRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillJobResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskAttemptRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskAttemptResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskResponseProto;
import org.apache.hadoop.security.proto.SecurityProtos.CancelDelegationTokenRequestProto;
import org.apache.hadoop.security.proto.SecurityProtos.CancelDelegationTokenResponseProto;
import org.apache.hadoop.security.proto.SecurityProtos.GetDelegationTokenRequestProto;
import org.apache.hadoop.security.proto.SecurityProtos.GetDelegationTokenResponseProto;
import org.apache.hadoop.security.proto.SecurityProtos.RenewDelegationTokenRequestProto;
import org.apache.hadoop.security.proto.SecurityProtos.RenewDelegationTokenResponseProto;
import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

```

```

public class MRClientProtocolPBServiceImpl implements MRClientProtocolPB {

    private MRClientProtocol real;

    public MRClientProtocolPBServiceImpl(MRClientProtocol impl) {
        this.real = impl;
    }

    @Override
    public GetJobReportResponseProto getJobReport(RpcController controller,
        GetJobReportRequestProto proto) throws ServiceException {
        GetJobReportRequestPBImp request = new GetJobReportRequestPBImp(proto);
        try {
            GetJobReportResponse response = real.getJobReport(request);
            return ((GetJobReportResponsePBImp)response).getProto();
        } catch (IOException e) {
            throw new ServiceException(e);
        }
    }

    @Override
    public GetTaskReportResponseProto getTaskReport(RpcController controller,
        GetTaskReportRequestProto proto) throws ServiceException {
        GetTaskReportRequest request = new GetTaskReportRequestPBImp(proto);
        try {
            GetTaskReportResponse response = real.getTaskReport(request);
            return ((GetTaskReportResponsePBImp)response).getProto();
        } catch (IOException e) {
            throw new ServiceException(e);
        }
    }

    @Override
    public GetTaskAttemptReportResponseProto getTaskAttemptReport(
        RpcController controller, GetTaskAttemptReportRequestProto proto)
        throws ServiceException {
        GetTaskAttemptReportRequest request = new GetTaskAttemptReportRequestPBImp(proto);
        try {
            GetTaskAttemptReportResponse response = real.getTaskAttemptReport(request);
            return ((GetTaskAttemptReportResponsePBImp)response).getProto();
        } catch (IOException e) {
            throw new ServiceException(e);
        }
    }

    @Override
    public GetCountersResponseProto getCounters(RpcController controller,

```



```

    GetCountersRequestProto proto) throws ServiceException {
    GetCountersRequest request = new GetCountersRequestPbImpl(proto);
    try {
        GetCountersResponse response = real.getCounters(request);
        return ((GetCountersResponsePbImpl)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

```

@Override

```

public GetTaskAttemptCompletionEventsResponseProto getTaskAttemptCompletionEvents(
    RpcController controller,
    GetTaskAttemptCompletionEventsRequestProto proto)
    throws ServiceException {
    GetTaskAttemptCompletionEventsRequest request = new
    GetTaskAttemptCompletionEventsRequestPbImpl(proto);
    try {
        GetTaskAttemptCompletionEventsResponse response = real.getTaskAttemptCompletionEvents(request);
        return ((GetTaskAttemptCompletionEventsResponsePbImpl)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

```

@Override

```

public GetTaskReportsResponseProto getTaskReports(RpcController controller,
    GetTaskReportsRequestProto proto) throws ServiceException {
    GetTaskReportsRequest request = new GetTaskReportsRequestPbImpl(proto);
    try {
        GetTaskReportsResponse response = real.getTaskReports(request);
        return ((GetTaskReportsResponsePbImpl)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

```

@Override

```

public GetDiagnosticsResponseProto getDiagnostics(RpcController controller,
    GetDiagnosticsRequestProto proto) throws ServiceException {
    GetDiagnosticsRequest request = new GetDiagnosticsRequestPbImpl(proto);
    try {
        GetDiagnosticsResponse response = real.getDiagnostics(request);
        return ((GetDiagnosticsResponsePbImpl)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

```

```

@Override
public GetDelegationTokenResponseProto getDelegationToken(
    RpcController controller, GetDelegationTokenRequestProto proto)
    throws ServiceException {
    GetDelegationTokenRequest request = new GetDelegationTokenRequestPBImp(
        proto);
    try {
        GetDelegationTokenResponse response = real.getDelegationToken(
            request);
        return ((GetDelegationTokenResponsePBImp)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

```

```

@Override
public KillJobResponseProto killJob(RpcController controller,
    KillJobRequestProto proto) throws ServiceException {
    KillJobRequest request = new KillJobRequestPBImp(proto);
    try {
        KillJobResponse response = real.killJob(request);
        return ((KillJobResponsePBImp)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

```

```

@Override
public KillTaskResponseProto killTask(RpcController controller,
    KillTaskRequestProto proto) throws ServiceException {
    KillTaskRequest request = new KillTaskRequestPBImp(proto);
    try {
        KillTaskResponse response = real.killTask(request);
        return ((KillTaskResponsePBImp)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

```

```

@Override
public KillTaskAttemptResponseProto killTaskAttempt(RpcController controller,
    KillTaskAttemptRequestProto proto) throws ServiceException {
    KillTaskAttemptRequest request = new KillTaskAttemptRequestPBImp(
        proto);
    try {
        KillTaskAttemptResponse response = real.killTaskAttempt(
            request);
        return ((KillTaskAttemptResponsePBImp)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

```

```

}

@Override
public FailTaskAttemptResponseProto failTaskAttempt(RpcController controller,
    FailTaskAttemptRequestProto proto) throws ServiceException {
    FailTaskAttemptRequest request = new FailTaskAttemptRequestPBImp(proto);
    try {
        FailTaskAttemptResponse response = real.failTaskAttempt(request);
        return ((FailTaskAttemptResponsePBImp)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public RenewDelegationTokenResponseProto renewDelegationToken(
    RpcController controller, RenewDelegationTokenRequestProto proto)
    throws ServiceException {
    RenewDelegationTokenRequestPBImp request =
        new RenewDelegationTokenRequestPBImp(proto);
    try {
        RenewDelegationTokenResponse response = real.renewDelegationToken(request);
        return ((RenewDelegationTokenResponsePBImp)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public CancelDelegationTokenResponseProto cancelDelegationToken(
    RpcController controller, CancelDelegationTokenRequestProto proto)
    throws ServiceException {
    CancelDelegationTokenRequestPBImp request =
        new CancelDelegationTokenRequestPBImp(proto);
    try {
        CancelDelegationTokenResponse response = real.cancelDelegationToken(request);
        return ((CancelDelegationTokenResponsePBImp)response).getProto();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

}

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 \*/

```
package org.apache.hadoop.mapreduce.v2.api.impl.pb.client;
```

```
import java.io.Closeable;
import java.io.IOException;
import java.lang.reflect.UndeclaredThrowableException;
import java.net.InetSocketAddress;

import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.ipc.RemoteException;
import org.apache.hadoop.mapreduce.v2.api.MRClientProtocol;
import org.apache.hadoop.mapreduce.v2.api.MRClientProtocolPB;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.CancelDelegationTokenRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.CancelDelegationTokenResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.FailTaskAttemptRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.FailTaskAttemptResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetCountersRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetCountersResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDelegationTokenRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDiagnosticsRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDiagnosticsResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetJobReportRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetJobReportResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptCompletionEventsRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptCompletionEventsResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptReportRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptReportResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportsRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportsResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillJobRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillJobResponse;
```

```

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskAttemptRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskAttemptResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.RenewDelegationTokenRequest;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.RenewDelegationTokenResponse;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.CancelDelegationTokenRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.CancelDelegationTokenResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.FailTaskAttemptRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.FailTaskAttemptResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetCountersRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetCountersResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetDelegationTokenRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetDelegationTokenResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetDiagnosticsRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetDiagnosticsResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetJobReportRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetJobReportResponsePBImp;
import
org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskAttemptCompletionEventsRequestPBImp;
import
org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskAttemptCompletionEventsResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskAttemptReportRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskAttemptReportResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskReportRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskReportResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskReportsRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.GetTaskReportsResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillJobRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillJobResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillTaskAttemptRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillTaskAttemptResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillTaskRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.KillTaskResponsePBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.RenewDelegationTokenRequestPBImp;
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb.RenewDelegationTokenResponsePBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.FailTaskAttemptRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetCountersRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetDiagnosticsRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetJobReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptCompletionEventsRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportsRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillJobRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskAttemptRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskRequestProto;
import org.apache.hadoop.security.proto.SecurityProtos.CancelDelegationTokenRequestProto;

```

```

import org.apache.hadoop.security.proto.SecurityProtos.GetDelegationTokenRequestProto;
import org.apache.hadoop.security.proto.SecurityProtos.RenewDelegationTokenRequestProto;
import com.google.protobuf.ServiceException;

public class MRClientProtocolPBClientImpl implements MRClientProtocol,
    Closeable {

    protected MRClientProtocolPB proxy;

    public MRClientProtocolPBClientImpl() {};

    public MRClientProtocolPBClientImpl(long clientVersion, InetSocketAddress addr, Configuration conf) throws
    IOException {
        RPC.setProtocolEngine(conf, MRClientProtocolPB.class, ProtobufRpcEngine.class);
        proxy = RPC.getProxy(MRClientProtocolPB.class, clientVersion, addr, conf);
    }

    @Override
    public InetSocketAddress getConnectAddress() {
        return RPC.getServerAddress(proxy);
    }

    @Override
    public void close() {
        if (this.proxy != null) {
            RPC.stopProxy(this.proxy);
        }
    }

    @Override
    public GetJobReportResponse getJobReport(GetJobReportRequest request)
        throws IOException {
        GetJobReportRequestProto requestProto = ((GetJobReportRequestPBImpl)request).getProto();
        try {
            return new GetJobReportResponsePBImpl(proxy.getJobReport(null, requestProto));
        } catch (ServiceException e) {
            throw unwrapAndThrowException(e);
        }
    }

    @Override
    public GetTaskReportResponse getTaskReport(GetTaskReportRequest request)
        throws IOException {
        GetTaskReportRequestProto requestProto = ((GetTaskReportRequestPBImpl)request).getProto();
        try {
            return new GetTaskReportResponsePBImpl(proxy.getTaskReport(null, requestProto));
        } catch (ServiceException e) {
            throw unwrapAndThrowException(e);
        }
    }

```

```

    }
}

@Override
public GetTaskAttemptReportResponse getTaskAttemptReport(
    GetTaskAttemptReportRequest request) throws IOException {
    GetTaskAttemptReportRequestProto requestProto = ((GetTaskAttemptReportRequestPbImpl)request).getProto();
    try {
        return new GetTaskAttemptReportResponsePbImpl(proxy.getTaskAttemptReport(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

@Override
public GetCountersResponse getCounters(GetCountersRequest request)
    throws IOException {
    GetCountersRequestProto requestProto = ((GetCountersRequestPbImpl)request).getProto();
    try {
        return new GetCountersResponsePbImpl(proxy.getCounters(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

@Override
public GetTaskAttemptCompletionEventsResponse getTaskAttemptCompletionEvents(
    GetTaskAttemptCompletionEventsRequest request) throws IOException {
    GetTaskAttemptCompletionEventsRequestProto requestProto =
    ((GetTaskAttemptCompletionEventsRequestPbImpl)request).getProto();
    try {
        return new GetTaskAttemptCompletionEventsResponsePbImpl(proxy.getTaskAttemptCompletionEvents(null,
requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

@Override
public GetTaskReportsResponse getTaskReports(GetTaskReportsRequest request)
    throws IOException {
    GetTaskReportsRequestProto requestProto = ((GetTaskReportsRequestPbImpl)request).getProto();
    try {
        return new GetTaskReportsResponsePbImpl(proxy.getTaskReports(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

@Override
public GetDiagnosticsResponse getDiagnostics(GetDiagnosticsRequest request)
    throws IOException {
    GetDiagnosticsRequestProto requestProto = ((GetDiagnosticsRequestPbImpl)request).getProto();
    try {
        return new GetDiagnosticsResponsePbImpl(proxy.getDiagnostics(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

@Override
public GetDelegationTokenResponse getDelegationToken(
    GetDelegationTokenRequest request) throws IOException {
    GetDelegationTokenRequestProto requestProto = ((GetDelegationTokenRequestPbImpl)
        request).getProto();
    try {
        return new GetDelegationTokenResponsePbImpl(proxy.getDelegationToken(
            null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

@Override
public KillJobResponse killJob(KillJobRequest request)
    throws IOException {
    KillJobRequestProto requestProto = ((KillJobRequestPbImpl)request).getProto();
    try {
        return new KillJobResponsePbImpl(proxy.killJob(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

@Override
public KillTaskResponse killTask(KillTaskRequest request)
    throws IOException {
    KillTaskRequestProto requestProto = ((KillTaskRequestPbImpl)request).getProto();
    try {
        return new KillTaskResponsePbImpl(proxy.killTask(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

@Override

```



```

public KillTaskAttemptResponse killTaskAttempt(KillTaskAttemptRequest request)
    throws IOException {
    KillTaskAttemptRequestProto requestProto = ((KillTaskAttemptRequestPBImp)request).getProto();
    try {
        return new KillTaskAttemptResponsePBImp(proxy.killTaskAttempt(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

@Override

```

public FailTaskAttemptResponse failTaskAttempt(FailTaskAttemptRequest request)
    throws IOException {
    FailTaskAttemptRequestProto requestProto = ((FailTaskAttemptRequestPBImp)request).getProto();
    try {
        return new FailTaskAttemptResponsePBImp(proxy.failTaskAttempt(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

@Override

```

public RenewDelegationTokenResponse renewDelegationToken(
    RenewDelegationTokenRequest request) throws IOException {
    RenewDelegationTokenRequestProto requestProto =
        ((RenewDelegationTokenRequestPBImp) request).getProto();
    try {
        return new RenewDelegationTokenResponsePBImp(proxy.renewDelegationToken(
            null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

@Override

```

public CancelDelegationTokenResponse cancelDelegationToken(
    CancelDelegationTokenRequest request) throws IOException {
    CancelDelegationTokenRequestProto requestProto =
        ((CancelDelegationTokenRequestPBImp) request).getProto();
    try {
        return new CancelDelegationTokenResponsePBImp(
            proxy.cancelDelegationToken(null, requestProto));
    } catch (ServiceException e) {
        throw unwrapAndThrowException(e);
    }
}

```

```

private IOException unwrapAndThrowException(ServiceException se) {
    if (se.getCause() instanceof RemoteException) {
        return ((RemoteException) se.getCause()).unwrapRemoteException();
    } else if (se.getCause() instanceof IOException) {
        return (IOException)se.getCause();
    } else {
        throw new UndeclaredThrowableException(se.getCause());
    }
}
}
}
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 */

package org.apache.hadoop.mapreduce.v2.api.impl.pb.client;

import java.io.IOException;
import java.net.InetSocketAddress;

import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.mapreduce.v2.api.HSClientProtocol;
import org.apache.hadoop.mapreduce.v2.api.HSClientProtocolPB;

public class HSClientProtocolPBClientImpl extends MRClientProtocolPBClientImpl
implements HSClientProtocol {

    public HSClientProtocolPBClientImpl(long clientVersion,
        InetSocketAddress addr, Configuration conf) throws IOException {
        super();
        RPC.setProtocolEngine(conf, HSClientProtocolPB.class,
            ProtobufRpcEngine.class);
        proxy = (HSClientProtocolPB)RPC.getProxy(

```

```

        HSClientProtocolPB.class, clientVersion, addr, conf);
    }
}
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 */
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.security.proto.SecurityProtos.GetDelegationTokenResponseProto;
import org.apache.hadoop.security.proto.SecurityProtos.GetDelegationTokenResponseProtoOrBuilder;
import org.apache.hadoop.security.proto.SecurityProtos.TokenProto;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImp;

public class GetDelegationTokenResponsePBImp extends
    ProtoBase<GetDelegationTokenResponseProto> implements GetDelegationTokenResponse {

    Token mrToken;

    GetDelegationTokenResponseProto proto =
        GetDelegationTokenResponseProto.getDefaultInstance();
    GetDelegationTokenResponseProto.Builder builder = null;
    boolean viaProto = false;

    public GetDelegationTokenResponsePBImp() {
        builder = GetDelegationTokenResponseProto.newBuilder();
    }

    public GetDelegationTokenResponsePBImp (
        GetDelegationTokenResponseProto proto) {
        this.proto = proto;
    }

```

```

    viaProto = true;
}

@Override
public Token getDelegationToken() {
    GetDelegationTokenResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (this.mrToken != null) {
        return this.mrToken;
    }
    if (!p.hasToken()) {
        return null;
    }
    this.mrToken = convertFromProtoFormat(p.getToken());
    return this.mrToken;
}

```

```

@Override
public void setDelegationToken(Token mrToken) {
    maybeInitBuilder();
    if (mrToken == null)
        builder.getToken();
    this.mrToken = mrToken;
}

```

```

@Override
public GetDelegationTokenResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

```

```

private void mergeLocalToBuilder() {
    if (mrToken != null) {
        builder.setToken(convertToProtoFormat(this.mrToken));
    }
}

```

```

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

```

```

private void maybeInitBuilder() {

```

```

if (viaProto || builder == null) {
    builder = GetDelegationTokenResponseProto.newBuilder(proto);
}
viaProto = false;
}

private TokenPBImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBImpl(p);
}

private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBImpl)t).getProto();
}
}
}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.List;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDiagnosticsResponse;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetDiagnosticsResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetDiagnosticsResponseProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class GetDiagnosticsResponsePBImpl extends ProtoBase<GetDiagnosticsResponseProto> implements
GetDiagnosticsResponse {
    GetDiagnosticsResponseProto proto = GetDiagnosticsResponseProto.getDefaultInstance();
}

```

```

GetDiagnosticsResponseProto.Builder builder = null;
boolean viaProto = false;

private List<String> diagnostics = null;

public GetDiagnosticsResponsePBImp() {
    builder = GetDiagnosticsResponseProto.newBuilder();
}

public GetDiagnosticsResponsePBImp(GetDiagnosticsResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetDiagnosticsResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.diagnostics != null) {
        addDiagnosticsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetDiagnosticsResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public List<String> getDiagnosticsList() {
    initDiagnostics();
    return this.diagnostics;
}

```

```

}
@Override
public String getDiagnostics(int index) {
    initDiagnostics();
    return this.diagnostics.get(index);
}
@Override
public int getDiagnosticsCount() {
    initDiagnostics();
    return this.diagnostics.size();
}

private void initDiagnostics() {
    if (this.diagnostics != null) {
        return;
    }
    GetDiagnosticsResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<String> list = p.getDiagnosticsList();
    this.diagnostics = new ArrayList<String>();

    for (String c : list) {
        this.diagnostics.add(c);
    }
}

@Override
public void addAllDiagnostics(final List<String> diagnostics) {
    if (diagnostics == null)
        return;
    initDiagnostics();
    this.diagnostics.addAll(diagnostics);
}

private void addDiagnosticsToProto() {
    maybeInitBuilder();
    builder.clearDiagnostics();
    if (diagnostics == null)
        return;
    builder.addAllDiagnostics(diagnostics);
}

@Override
public void addDiagnostics(String diagnostics) {
    initDiagnostics();
    this.diagnostics.add(diagnostics);
}

@Override
public void removeDiagnostics(int index) {
    initDiagnostics();

```

```

    this.diagnostics.remove(index);
}
@Override
public void clearDiagnostics() {
    initDiagnostics();
    this.diagnostics.clear();
}

}

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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDiagnosticsRequest;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskAttemptIdPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetDiagnosticsRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetDiagnosticsRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class GetDiagnosticsRequestPBImp extends ProtoBase<GetDiagnosticsRequestProto> implements
GetDiagnosticsRequest {
    GetDiagnosticsRequestProto proto = GetDiagnosticsRequestProto.getDefaultInstance();
    GetDiagnosticsRequestProto.Builder builder = null;
    boolean viaProto = false;

    private TaskAttemptId taskAttemptId = null;

```



```

public GetDiagnosticsRequestPBImp() {
    builder = GetDiagnosticsRequestProto.newBuilder();
}

public GetDiagnosticsRequestPBImp(GetDiagnosticsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetDiagnosticsRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.taskAttemptId != null) {
        builder.setTaskAttemptId(convertToProtoFormat(this.taskAttemptId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetDiagnosticsRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public TaskAttemptId getTaskAttemptId() {
    GetDiagnosticsRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskAttemptId != null) {
        return this.taskAttemptId;
    }
    if (!p.hasTaskAttemptId()) {
        return null;
    }
}

```

```

    this.taskAttemptId = convertFromProtoFormat(p.getTaskAttemptId());
    return this.taskAttemptId;
}

@Override
public void setTaskAttemptId(TaskAttemptId taskAttemptId) {
    maybeInitBuilder();
    if (taskAttemptId == null)
        builder.clearTaskAttemptId();
    this.taskAttemptId = taskAttemptId;
}

private TaskAttemptIdPBImpl convertFromProtoFormat(TaskAttemptIdProto p) {
    return new TaskAttemptIdPBImpl(p);
}

private TaskAttemptIdProto convertToProtoFormat(TaskAttemptId t) {
    return ((TaskAttemptIdPBImpl)t).getProto();
}

}

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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskAttemptResponse;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskAttemptResponseProto;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

```

```

public class KillTaskAttemptResponsePBImpl extends ProtoBase<KillTaskAttemptResponseProto> implements
KillTaskAttemptResponse {
    KillTaskAttemptResponseProto proto = KillTaskAttemptResponseProto.getDefaultInstance();
    KillTaskAttemptResponseProto.Builder builder = null;
    boolean viaProto = false;

    public KillTaskAttemptResponsePBImpl() {
        builder = KillTaskAttemptResponseProto.newBuilder();
    }

    public KillTaskAttemptResponsePBImpl(KillTaskAttemptResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public KillTaskAttemptResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = KillTaskAttemptResponseProto.newBuilder(proto);
        }
        viaProto = false;
    }
}

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```

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\*/

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportsRequest;  
import org.apache.hadoop.mapreduce.v2.api.records.JobId;  
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;  
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.JobIdPBImp;  
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProto;  
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskTypeProto;  
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportsRequestProto;  
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportsRequestProtoOrBuilder;  
import org.apache.hadoop.mapreduce.v2.util.MRProtoUtils;  
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class GetTaskReportsRequestPBImp extends ProtoBase<GetTaskReportsRequestProto> implements  
GetTaskReportsRequest {
```

```
    GetTaskReportsRequestProto proto = GetTaskReportsRequestProto.getDefaultInstance();  
    GetTaskReportsRequestProto.Builder builder = null;  
    boolean viaProto = false;
```

```
    private JobId jobId = null;
```

```
    public GetTaskReportsRequestPBImp() {  
        builder = GetTaskReportsRequestProto.newBuilder();  
    }
```

```
    public GetTaskReportsRequestPBImp(GetTaskReportsRequestProto proto) {  
        this.proto = proto;  
        viaProto = true;  
    }
```

```
    public GetTaskReportsRequestProto getProto() {  
        mergeLocalToProto();  
        proto = viaProto ? proto : builder.build();  
        viaProto = true;  
        return proto;  
    }
```

```
    private void mergeLocalToBuilder() {  
        if (this.jobId != null) {
```

```

        builder.setJobId(convertToProtoFormat(this.jobId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetTaskReportsRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public JobId getJobId() {
    GetTaskReportsRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.jobId != null) {
        return this.jobId;
    }
    if (!p.hasJobId()) {
        return null;
    }
    this.jobId = convertFromProtoFormat(p.getJobId());
    return this.jobId;
}

@Override
public void setJobId(JobId jobId) {
    maybeInitBuilder();
    if (jobId == null)
        builder.clearJobId();
    this.jobId = jobId;
}

@Override
public TaskType getTaskType() {
    GetTaskReportsRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasTaskType()) {
        return null;
    }
    return convertFromProtoFormat(p.getTaskType());
}

```

```

@Override
public void setTaskType(TaskType taskType) {
    maybeInitBuilder();
    if (taskType == null) {
        builder.clearTaskType();
        return;
    }
    builder.setTaskType(convertToProtoFormat(taskType));
}

private JobIdPBImpl convertFromProtoFormat(JobIdProto p) {
    return new JobIdPBImpl(p);
}

private JobIdProto convertToProtoFormat(JobId t) {
    return ((JobIdPBImpl)t).getProto();
}

private TaskTypeProto convertToProtoFormat(TaskType e) {
    return MRProtoUtils.convertToProtoFormat(e);
}

private TaskType convertFromProtoFormat(TaskTypeProto e) {
    return MRProtoUtils.convertFromProtoFormat(e);
}

}
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 */

```

```

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptReportRequest;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskAttemptIdPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptReportRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class GetTaskAttemptReportRequestPBImp extends ProtoBase<GetTaskAttemptReportRequestProto>
implements GetTaskAttemptReportRequest {
    GetTaskAttemptReportRequestProto proto = GetTaskAttemptReportRequestProto.getDefaultInstance();
    GetTaskAttemptReportRequestProto.Builder builder = null;
    boolean viaProto = false;

    private TaskAttemptId taskAttemptId = null;

    public GetTaskAttemptReportRequestPBImp() {
        builder = GetTaskAttemptReportRequestProto.newBuilder();
    }

    public GetTaskAttemptReportRequestPBImp(GetTaskAttemptReportRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetTaskAttemptReportRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void mergeLocalToBuilder() {
        if (this.taskAttemptId != null) {
            builder.setTaskAttemptId(convertToProtoFormat(this.taskAttemptId));
        }
    }

    private void mergeLocalToProto() {
        if (viaProto)
            maybeInitBuilder();
        mergeLocalToBuilder();
    }

```

```

    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetTaskAttemptReportRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public TaskAttemptId getTaskAttemptId() {
    GetTaskAttemptReportRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskAttemptId != null) {
        return this.taskAttemptId;
    }
    if (!p.hasTaskAttemptId()) {
        return null;
    }
    this.taskAttemptId = convertFromProtoFormat(p.getTaskAttemptId());
    return this.taskAttemptId;
}

@Override
public void setTaskAttemptId(TaskAttemptId taskAttemptId) {
    maybeInitBuilder();
    if (taskAttemptId == null)
        builder.clearTaskAttemptId();
    this.taskAttemptId = taskAttemptId;
}

private TaskAttemptIdPBImpl convertFromProtoFormat(TaskAttemptIdProto p) {
    return new TaskAttemptIdPBImpl(p);
}

private TaskAttemptIdProto convertToProtoFormat(TaskAttemptId t) {
    return ((TaskAttemptIdPBImpl)t).getProto();
}

}

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```



```

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*/

```

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.FailTaskAttemptResponse;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.FailTaskAttemptResponseProto;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```

public class FailTaskAttemptResponsePBImp extends ProtoBase<FailTaskAttemptResponseProto> implements
FailTaskAttemptResponse {
    FailTaskAttemptResponseProto proto = FailTaskAttemptResponseProto.getDefaultInstance();
    FailTaskAttemptResponseProto.Builder builder = null;
    boolean viaProto = false;

    public FailTaskAttemptResponsePBImp() {
        builder = FailTaskAttemptResponseProto.newBuilder();
    }

    public FailTaskAttemptResponsePBImp(FailTaskAttemptResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public FailTaskAttemptResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = FailTaskAttemptResponseProto.newBuilder(proto);
        }
    }
}

```

```

    viaProto = false;
}

}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetCountersResponse;
import org.apache.hadoop.mapreduce.v2.api.records.Counters;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.CountersPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CountersProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetCountersResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetCountersResponseProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class GetCountersResponsePBImp extends ProtoBase<GetCountersResponseProto> implements
GetCountersResponse {
    GetCountersResponseProto proto = GetCountersResponseProto.getDefaultInstance();
    GetCountersResponseProto.Builder builder = null;
    boolean viaProto = false;

    private Counters counters = null;

    public GetCountersResponsePBImp() {
        builder = GetCountersResponseProto.newBuilder();
    }
}

```

```

public GetCountersResponsePBImpl(GetCountersResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

```

```

public GetCountersResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

```

```

private void mergeLocalToBuilder() {
    if (this.counters != null) {
        builder.setCounters(convertToProtoFormat(this.counters));
    }
}

```

```

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

```

```

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetCountersResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

```

```

@Override
public Counters getCounters() {
    GetCountersResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (this.counters != null) {
        return this.counters;
    }
    if (!p.hasCounters()) {
        return null;
    }
    this.counters = convertFromProtoFormat(p.getCounters());
    return this.counters;
}

```

```

@Override

```

```

public void setCounters(Counters counters) {
    maybeInitBuilder();
    if (counters == null)
        builder.clearCounters();
    this.counters = counters;
}

private CountersPBIImpl convertFromProtoFormat(CountersProto p) {
    return new CountersPBIImpl(p);
}

private CountersProto convertToProtoFormat(Counters t) {
    return ((CountersPBIImpl)t).getProto();
}

}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.RenewDelegationTokenResponse;
import org.apache.hadoop.security.proto.SecurityProtos.RenewDelegationTokenResponseProto;
import org.apache.hadoop.security.proto.SecurityProtos.RenewDelegationTokenResponseProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class RenewDelegationTokenResponsePBIImpl extends
    ProtoBase<RenewDelegationTokenResponseProto> implements
    RenewDelegationTokenResponse {

    RenewDelegationTokenResponseProto proto =

```

```

    RenewDelegationTokenResponseProto.getDefaultInstance();
    RenewDelegationTokenResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RenewDelegationTokenResponsePBImp() {
        this.builder = RenewDelegationTokenResponseProto.newBuilder();
    }

    public RenewDelegationTokenResponsePBImp (
        RenewDelegationTokenResponseProto proto) {
        this.proto = proto;
        this.viaProto = true;
    }

    @Override
    public RenewDelegationTokenResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = RenewDelegationTokenResponseProto.newBuilder(proto);
        }
        viaProto = false;
    }

    @Override
    public long getNextExpirationTime() {
        RenewDelegationTokenResponseProtoOrBuilder p = viaProto ? proto : builder;
        return p.getNewExpiryTime();
    }

    @Override
    public void setNextExpirationTime(long expTime) {
        maybeInitBuilder();
        builder.setNewExpiryTime(expTime);
    }
}
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*/

```

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
```

```
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptCompletionEventsResponse;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEvent;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskAttemptCompletionEventPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptCompletionEventProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptCompletionEventsResponseProto;
import
org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptCompletionEventsResponseProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class GetTaskAttemptCompletionEventsResponsePBImp extends
ProtoBase<GetTaskAttemptCompletionEventsResponseProto> implements
GetTaskAttemptCompletionEventsResponse {
    GetTaskAttemptCompletionEventsResponseProto proto =
GetTaskAttemptCompletionEventsResponseProto.getDefaultInstance();
    GetTaskAttemptCompletionEventsResponseProto.Builder builder = null;
    boolean viaProto = false;
```

```
private List<TaskAttemptCompletionEvent> completionEvents = null;
```

```
public GetTaskAttemptCompletionEventsResponsePBImp() {
    builder = GetTaskAttemptCompletionEventsResponseProto.newBuilder();
}
```

```
public GetTaskAttemptCompletionEventsResponsePBImp(GetTaskAttemptCompletionEventsResponseProto
proto) {
    this.proto = proto;
    viaProto = true;
```

```

}

public GetTaskAttemptCompletionEventsResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.completionEvents != null) {
        addCompletionEventsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetTaskAttemptCompletionEventsResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public List<TaskAttemptCompletionEvent> getCompletionEventList() {
    initCompletionEvents();
    return this.completionEvents;
}

@Override
public TaskAttemptCompletionEvent getCompletionEvent(int index) {
    initCompletionEvents();
    return this.completionEvents.get(index);
}

@Override
public int getCompletionEventCount() {
    initCompletionEvents();
    return this.completionEvents.size();
}

private void initCompletionEvents() {

```

```

if (this.completionEvents != null) {
    return;
}
GetTaskAttemptCompletionEventsResponseProtoOrBuilder p = viaProto ? proto : builder;
List<TaskAttemptCompletionEventProto> list = p.getCompletionEventsList();
this.completionEvents = new ArrayList<TaskAttemptCompletionEvent>();

for (TaskAttemptCompletionEventProto c : list) {
    this.completionEvents.add(convertFromProtoFormat(c));
}
}

@Override
public void addAllCompletionEvents(final List<TaskAttemptCompletionEvent> completionEvents) {
    if (completionEvents == null)
        return;
    initCompletionEvents();
    this.completionEvents.addAll(completionEvents);
}

private void addCompletionEventsToProto() {
    maybeInitBuilder();
    builder.clearCompletionEvents();
    if (completionEvents == null)
        return;
    Iterable<TaskAttemptCompletionEventProto> iterable = new Iterable<TaskAttemptCompletionEventProto>() {
        @Override
        public Iterator<TaskAttemptCompletionEventProto> iterator() {
            return new Iterator<TaskAttemptCompletionEventProto>() {

                Iterator<TaskAttemptCompletionEvent> iter = completionEvents.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public TaskAttemptCompletionEventProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
    };
}

```



```

    }
};
builder.addAllCompletionEvents(iterable);
}
@Override
public void addCompletionEvent(TaskAttemptCompletionEvent completionEvents) {
    initCompletionEvents();
    this.completionEvents.add(completionEvents);
}
@Override
public void removeCompletionEvent(int index) {
    initCompletionEvents();
    this.completionEvents.remove(index);
}
@Override
public void clearCompletionEvents() {
    initCompletionEvents();
    this.completionEvents.clear();
}

private TaskAttemptCompletionEventPBImpl convertFromProtoFormat(TaskAttemptCompletionEventProto p) {
    return new TaskAttemptCompletionEventPBImpl(p);
}

private TaskAttemptCompletionEventProto convertToProtoFormat(TaskAttemptCompletionEvent t) {
    return ((TaskAttemptCompletionEventPBImpl)t).getProto();
}

}
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```

\*/

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetJobReportResponse;  
import org.apache.hadoop.mapreduce.v2.api.records.JobReport;  
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.JobReportPBImp;  
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobReportProto;  
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetJobReportResponseProto;  
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetJobReportResponseProtoOrBuilder;  
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class GetJobReportResponsePBImp extends ProtoBase<GetJobReportResponseProto> implements  
GetJobReportResponse {
```

```
    GetJobReportResponseProto proto = GetJobReportResponseProto.getDefaultInstance();  
    GetJobReportResponseProto.Builder builder = null;  
    boolean viaProto = false;
```

```
    private JobReport jobReport = null;
```

```
    public GetJobReportResponsePBImp() {  
        builder = GetJobReportResponseProto.newBuilder();  
    }
```

```
    public GetJobReportResponsePBImp(GetJobReportResponseProto proto) {  
        this.proto = proto;  
        viaProto = true;  
    }
```

```
    public GetJobReportResponseProto getProto() {  
        mergeLocalToProto();  
        proto = viaProto ? proto : builder.build();  
        viaProto = true;  
        return proto;  
    }
```

```
    private void mergeLocalToBuilder() {  
        if (this.jobReport != null) {  
            builder.setJobReport(convertToProtoFormat(this.jobReport));  
        }  
    }
```

```
    private void mergeLocalToProto() {  
        if (viaProto)
```

```

    maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetJobReportResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public JobReport getJobReport() {
    GetJobReportResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (this.jobReport != null) {
        return this.jobReport;
    }
    if (!p.hasJobReport()) {
        return null;
    }
    this.jobReport = convertFromProtoFormat(p.getJobReport());
    return this.jobReport;
}

@Override
public void setJobReport(JobReport jobReport) {
    maybeInitBuilder();
    if (jobReport == null)
        builder.clearJobReport();
    this.jobReport = jobReport;
}

private JobReportPBImply convertFromProtoFormat(JobReportProto p) {
    return new JobReportPBImply(p);
}

private JobReportProto convertToProtoFormat(JobReport t) {
    return ((JobReportPBImply)t).getProto();
}

}
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 \*/

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetCountersRequest;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.JobIdPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetCountersRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetCountersRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class GetCountersRequestPBImp extends ProtoBase<GetCountersRequestProto> implements
GetCountersRequest {
  GetCountersRequestProto proto = GetCountersRequestProto.getDefaultInstance();
  GetCountersRequestProto.Builder builder = null;
  boolean viaProto = false;

  private JobId jobId = null;

  public GetCountersRequestPBImp() {
    builder = GetCountersRequestProto.newBuilder();
  }

  public GetCountersRequestPBImp(GetCountersRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public GetCountersRequestProto getProto() {
```

```

    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.jobId != null) {
        builder.setJobId(convertToProtoFormat(this.jobId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetCountersRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public JobId getJobId() {
    GetCountersRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.jobId != null) {
        return this.jobId;
    }
    if (!p.hasJobId()) {
        return null;
    }
    this.jobId = convertFromProtoFormat(p.getJobId());
    return this.jobId;
}

@Override
public void setJobId(JobId jobId) {
    maybeInitBuilder();
    if (jobId == null)
        builder.clearJobId();
    this.jobId = jobId;
}

```

```

private JobIdPBImpl convertFromProtoFormat(JobIdProto p) {
    return new JobIdPBImpl(p);
}

private JobIdProto convertToProtoFormat(JobId t) {
    return ((JobIdPBImpl)t).getProto();
}

}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillJobResponse;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillJobResponseProto;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class KillJobResponsePBImpl extends ProtoBase<KillJobResponseProto> implements KillJobResponse {
    KillJobResponseProto proto = KillJobResponseProto.getDefaultInstance();
    KillJobResponseProto.Builder builder = null;
    boolean viaProto = false;

    public KillJobResponsePBImpl() {
        builder = KillJobResponseProto.newBuilder();
    }
}

```

```

public KillJobResponsePBImpl(KillJobResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public KillJobResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = KillJobResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

}

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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.RenewDelegationTokenRequest;
import org.apache.hadoop.security.proto.SecurityProtos.RenewDelegationTokenRequestProto;
import org.apache.hadoop.security.proto.SecurityProtos.RenewDelegationTokenRequestProtoOrBuilder;
import org.apache.hadoop.security.proto.SecurityProtos.TokenProto;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

```

```

import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImp;

public class RenewDelegationTokenRequestPBImp extends
    ProtoBase<RenewDelegationTokenRequestProto> implements
    RenewDelegationTokenRequest {

    RenewDelegationTokenRequestProto proto = RenewDelegationTokenRequestProto
        .getDefaultInstance();
    RenewDelegationTokenRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RenewDelegationTokenRequestPBImp() {
        this.builder = RenewDelegationTokenRequestProto.newBuilder();
    }

    public RenewDelegationTokenRequestPBImp(
        RenewDelegationTokenRequestProto proto) {
        this.proto = proto;
        this.viaProto = true;
    }

    Token token;

    @Override
    public Token getDelegationToken() {
        RenewDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
        if (this.token != null) {
            return this.token;
        }
        this.token = convertFromProtoFormat(p.getToken());
        return this.token;
    }

    @Override
    public void setDelegationToken(Token token) {
        maybeInitBuilder();
        if (token == null)
            builder.clearToken();
        this.token = token;
    }

    @Override
    public RenewDelegationTokenRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }
}

```



```

private void mergeLocalToBuilder() {
    if (token != null) {
        builder.setToken(convertToProtoFormat(this.token));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RenewDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private TokenPBIImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBIImpl(p);
}

private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBIImpl) t).getProto();
}
}
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 */
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

```

```
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetDelegationTokenRequest;
import org.apache.hadoop.security.proto.SecurityProtos.GetDelegationTokenRequestProto;
import org.apache.hadoop.security.proto.SecurityProtos.GetDelegationTokenRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class GetDelegationTokenRequestPBImp extends
    ProtoBase<GetDelegationTokenRequestProto> implements GetDelegationTokenRequest {
```

```
    String renewer;
```

```
    GetDelegationTokenRequestProto proto =
        GetDelegationTokenRequestProto.getDefaultInstance();
    GetDelegationTokenRequestProto.Builder builder = null;
    boolean viaProto = false;
```

```
    public GetDelegationTokenRequestPBImp() {
        builder = GetDelegationTokenRequestProto.newBuilder();
    }
```

```
    public GetDelegationTokenRequestPBImp (
        GetDelegationTokenRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }
```

```
    @Override
    public String getRenewer(){
        GetDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
        if (this.renewer != null) {
            return this.renewer;
        }
        this.renewer = p.getRenewer();
        return this.renewer;
    }
```

```
    @Override
    public void setRenewer(String renewer) {
        maybeInitBuilder();
        if (renewer == null)
            builder.clearRenewer();
        this.renewer = renewer;
    }
```

```
    @Override
    public GetDelegationTokenRequestProto getProto() {
```

```

mergeLocalToProto();
proto = viaProto ? proto : builder.build();
viaProto = true;
return proto;
}

```

```

private void mergeLocalToBuilder() {
    if (renewer != null) {
        builder.setRenewer(this.renewer);
    }
}

```

```

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

```

```

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}
}

```

/\*\*

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\*/

```

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

```

```

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskResponse;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskResponseProto;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class KillTaskResponsePBImpl extends ProtoBase<KillTaskResponseProto> implements KillTaskResponse
{
    KillTaskResponseProto proto = KillTaskResponseProto.getDefaultInstance();
    KillTaskResponseProto.Builder builder = null;
    boolean viaProto = false;

    public KillTaskResponsePBImpl() {
        builder = KillTaskResponseProto.newBuilder();
    }

    public KillTaskResponsePBImpl(KillTaskResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public KillTaskResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = KillTaskResponseProto.newBuilder(proto);
        }
        viaProto = false;
    }

}

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*/

```

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.FailTaskAttemptRequest;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskAttemptIdPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.FailTaskAttemptRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.FailTaskAttemptRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

```

```

public class FailTaskAttemptRequestPBImp extends ProtoBase<FailTaskAttemptRequestProto> implements
FailTaskAttemptRequest {
    FailTaskAttemptRequestProto proto = FailTaskAttemptRequestProto.getDefaultInstance();
    FailTaskAttemptRequestProto.Builder builder = null;
    boolean viaProto = false;

    private TaskAttemptId taskAttemptId = null;

    public FailTaskAttemptRequestPBImp() {
        builder = FailTaskAttemptRequestProto.newBuilder();
    }

    public FailTaskAttemptRequestPBImp(FailTaskAttemptRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public FailTaskAttemptRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }
}

```

```

private void mergeLocalToBuilder() {
    if (this.taskAttemptId != null) {
        builder.setTaskAttemptId(convertToProtoFormat(this.taskAttemptId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = FailTaskAttemptRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public TaskAttemptId getTaskAttemptId() {
    FailTaskAttemptRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskAttemptId != null) {
        return this.taskAttemptId;
    }
    if (!p.hasTaskAttemptId()) {
        return null;
    }
    this.taskAttemptId = convertFromProtoFormat(p.getTaskAttemptId());
    return this.taskAttemptId;
}

@Override
public void setTaskAttemptId(TaskAttemptId taskAttemptId) {
    maybeInitBuilder();
    if (taskAttemptId == null)
        builder.clearTaskAttemptId();
    this.taskAttemptId = taskAttemptId;
}

private TaskAttemptIdPBImpl convertFromProtoFormat(TaskAttemptIdProto p) {
    return new TaskAttemptIdPBImpl(p);
}

private TaskAttemptIdProto convertToProtoFormat(TaskAttemptId t) {

```

```

    return ((TaskAttemptIdPBImpl)t).getProto();
}

}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillJobRequest;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.JobIdPBImpl;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillJobRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillJobRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class KillJobRequestPBImpl extends ProtoBase<KillJobRequestProto> implements KillJobRequest {
    KillJobRequestProto proto = KillJobRequestProto.getDefaultInstance();
    KillJobRequestProto.Builder builder = null;
    boolean viaProto = false;

    private JobId jobId = null;

    public KillJobRequestPBImpl() {
        builder = KillJobRequestProto.newBuilder();
    }
}

```

```

public KillJobRequestPBImpl(KillJobRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public KillJobRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.jobId != null) {
        builder.setJobId(convertToProtoFormat(this.jobId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = KillJobRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public JobId getJobId() {
    KillJobRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.jobId != null) {
        return this.jobId;
    }
    if (!p.hasJobId()) {
        return null;
    }
    this.jobId = convertFromProtoFormat(p.getJobId());
    return this.jobId;
}

```



```

@Override
public void setJobId(JobId jobId) {
    maybeInitBuilder();
    if (jobId == null)
        builder.clearJobId();
    this.jobId = jobId;
}

private JobIdPBImpl convertFromProtoFormat(JobIdProto p) {
    return new JobIdPBImpl(p);
}

private JobIdProto convertToProtoFormat(JobId t) {
    return ((JobIdPBImpl)t).getProto();
}

}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskAttemptRequest;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskAttemptIdPBImpl;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskAttemptRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskAttemptRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

```

```

public class KillTaskAttemptRequestPBImpl extends ProtoBase<KillTaskAttemptRequestProto> implements
KillTaskAttemptRequest {
    KillTaskAttemptRequestProto proto = KillTaskAttemptRequestProto.getDefaultInstance();
    KillTaskAttemptRequestProto.Builder builder = null;
    boolean viaProto = false;

    private TaskAttemptId taskAttemptId = null;

    public KillTaskAttemptRequestPBImpl() {
        builder = KillTaskAttemptRequestProto.newBuilder();
    }

    public KillTaskAttemptRequestPBImpl(KillTaskAttemptRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public KillTaskAttemptRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void mergeLocalToBuilder() {
        if (this.taskAttemptId != null) {
            builder.setTaskAttemptId(convertToProtoFormat(this.taskAttemptId));
        }
    }

    private void mergeLocalToProto() {
        if (viaProto)
            maybeInitBuilder();
        mergeLocalToBuilder();
        proto = builder.build();
        viaProto = true;
    }

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = KillTaskAttemptRequestProto.newBuilder(proto);
        }
        viaProto = false;
    }
}

```

```

@Override
public TaskAttemptId getTaskAttemptId() {
    KillTaskAttemptRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskAttemptId != null) {
        return this.taskAttemptId;
    }
    if (!p.hasTaskAttemptId()) {
        return null;
    }
    this.taskAttemptId = convertFromProtoFormat(p.getTaskAttemptId());
    return this.taskAttemptId;
}

@Override
public void setTaskAttemptId(TaskAttemptId taskAttemptId) {
    maybeInitBuilder();
    if (taskAttemptId == null)
        builder.clearTaskAttemptId();
    this.taskAttemptId = taskAttemptId;
}

private TaskAttemptIdPBImpl convertFromProtoFormat(TaskAttemptIdProto p) {
    return new TaskAttemptIdPBImpl(p);
}

private TaskAttemptIdProto convertToProtoFormat(TaskAttemptId t) {
    return ((TaskAttemptIdPBImpl)t).getProto();
}

}
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```

\*/

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.CancelDelegationTokenRequest;
import org.apache.hadoop.security.proto.SecurityProtos.CancelDelegationTokenRequestProto;
import org.apache.hadoop.security.proto.SecurityProtos.CancelDelegationTokenRequestProtoOrBuilder;
import org.apache.hadoop.security.proto.SecurityProtos.TokenProto;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImp;
```

```
public class CancelDelegationTokenRequestPBImp extends
    ProtoBase<CancelDelegationTokenRequestProto> implements
    CancelDelegationTokenRequest {
```

```
    CancelDelegationTokenRequestProto proto =
        CancelDelegationTokenRequestProto.getDefaultInstance();
    CancelDelegationTokenRequestProto.Builder builder = null;
    boolean viaProto = false;
```

```
    public CancelDelegationTokenRequestPBImp() {
        this.builder = CancelDelegationTokenRequestProto.newBuilder();
    }
```

```
    public CancelDelegationTokenRequestPBImp (
        CancelDelegationTokenRequestProto proto) {
        this.proto = proto;
        this.viaProto = true;
    }
```

```
    Token token;
```

```
    @Override
    public Token getDelegationToken() {
        CancelDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
        if (this.token != null) {
            return this.token;
        }
        this.token = convertFromProtoFormat(p.getToken());
        return this.token;
    }
```

```
    @Override
    public void setDelegationToken(Token token) {
        maybeInitBuilder();
        if (token == null)
            builder.clearToken();
```

```

    this.token = token;
}

@Override
public CancelDelegationTokenRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (token != null) {
        builder.setToken(convertToProtoFormat(this.token));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = CancelDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private TokenPBIImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBIImpl(p);
}

private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBIImpl)t).getProto();
}
}
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```

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*/

```

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.KillTaskRequest;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskIdPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.KillTaskRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

```

```

public class KillTaskRequestPBImp extends ProtoBase<KillTaskRequestProto> implements KillTaskRequest {
    KillTaskRequestProto proto = KillTaskRequestProto.getDefaultInstance();
    KillTaskRequestProto.Builder builder = null;
    boolean viaProto = false;

```

```
private TaskId taskId = null;
```

```

public KillTaskRequestPBImp() {
    builder = KillTaskRequestProto.newBuilder();
}

```

```

public KillTaskRequestPBImp(KillTaskRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

```

```

public KillTaskRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

```

```

private void mergeLocalToBuilder() {
    if (this.taskId != null) {
        builder.setTaskId(convertToProtoFormat(this.taskId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = KillTaskRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public TaskId getTaskId() {
    KillTaskRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskId != null) {
        return this.taskId;
    }
    if (!p.hasTaskId()) {
        return null;
    }
    this.taskId = convertFromProtoFormat(p.getTaskId());
    return this.taskId;
}

@Override
public void setTaskId(TaskId taskId) {
    maybeInitBuilder();
    if (taskId == null)
        builder.clearTaskId();
    this.taskId = taskId;
}

private TaskIdPBImpl convertFromProtoFormat(TaskIdProto p) {
    return new TaskIdPBImpl(p);
}

```

```

private TaskIdProto convertToProtoFormat(TaskId t) {
    return ((TaskIdPBImp)t).getProto();
}

}

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 * the License.
 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.CancelDelegationTokenResponse;
import org.apache.hadoop.security.proto.SecurityProtos.CancelDelegationTokenResponseProto;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class CancelDelegationTokenResponsePBImp extends
    ProtoBase<CancelDelegationTokenResponseProto> implements
    CancelDelegationTokenResponse {

    CancelDelegationTokenResponseProto proto = CancelDelegationTokenResponseProto
        .getDefaultInstance();

    public CancelDelegationTokenResponsePBImp() {
    }

    public CancelDelegationTokenResponsePBImp(
        CancelDelegationTokenResponseProto proto) {
        this.proto = proto;
    }

    @Override
    public CancelDelegationTokenResponseProto getProto() {
        return proto;
    }

```



```

}

}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportRequest;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskIdPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class GetTaskReportRequestPBImp extends ProtoBase<GetTaskReportRequestProto> implements
GetTaskReportRequest {
    GetTaskReportRequestProto proto = GetTaskReportRequestProto.getDefaultInstance();
    GetTaskReportRequestProto.Builder builder = null;
    boolean viaProto = false;

    private TaskId taskId = null;

    public GetTaskReportRequestPBImp() {
        builder = GetTaskReportRequestProto.newBuilder();
    }

    public GetTaskReportRequestPBImp(GetTaskReportRequestProto proto) {

```

```

    this.proto = proto;
    viaProto = true;
}

public GetTaskReportRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.taskId != null) {
        builder.setTaskId(convertToProtoFormat(this.taskId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetTaskReportRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public TaskId getTaskId() {
    GetTaskReportRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskId != null) {
        return this.taskId;
    }
    if (!p.hasTaskId()) {
        return null;
    }
    this.taskId = convertFromProtoFormat(p.getTaskId());
    return this.taskId;
}

@Override
public void setTaskId(TaskId taskId) {

```

```

    maybeInitBuilder();
    if (taskId == null)
        builder.clearTaskId();
    this.taskId = taskId;
}

private TaskIdPBImpl convertFromProtoFormat(TaskIdProto p) {
    return new TaskIdPBImpl(p);
}

private TaskIdProto convertToProtoFormat(TaskId t) {
    return ((TaskIdPBImpl)t).getProto();
}

}

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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportsResponse;
import org.apache.hadoop.mapreduce.v2.api.records.TaskReport;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskReportPBImpl;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskReportProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportsResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportsResponseProtoOrBuilder;

```

```

import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class GetTaskReportsResponsePBImpl extends ProtoBase<GetTaskReportsResponseProto> implements
GetTaskReportsResponse {
    GetTaskReportsResponseProto proto = GetTaskReportsResponseProto.getDefaultInstance();
    GetTaskReportsResponseProto.Builder builder = null;
    boolean viaProto = false;

    private List<TaskReport> taskReports = null;

    public GetTaskReportsResponsePBImpl() {
        builder = GetTaskReportsResponseProto.newBuilder();
    }

    public GetTaskReportsResponsePBImpl(GetTaskReportsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetTaskReportsResponseProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void mergeLocalToBuilder() {
        if (this.taskReports != null) {
            addTaskReportsToProto();
        }
    }

    private void mergeLocalToProto() {
        if (viaProto)
            maybeInitBuilder();
        mergeLocalToBuilder();
        proto = builder.build();
        viaProto = true;
    }

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = GetTaskReportsResponseProto.newBuilder(proto);
        }
        viaProto = false;
    }

```

```

}

@Override
public List<TaskReport> getTaskReportList() {
    initTaskReports();
    return this.taskReports;
}

@Override
public TaskReport getTaskReport(int index) {
    initTaskReports();
    return this.taskReports.get(index);
}

@Override
public int getTaskReportCount() {
    initTaskReports();
    return this.taskReports.size();
}

private void initTaskReports() {
    if (this.taskReports != null) {
        return;
    }
    GetTaskReportsResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<TaskReportProto> list = p.getTaskReportsList();
    this.taskReports = new ArrayList<TaskReport>();

    for (TaskReportProto c : list) {
        this.taskReports.add(convertFromProtoFormat(c));
    }
}

@Override
public void addAllTaskReports(final List<TaskReport> taskReports) {
    if (taskReports == null)
        return;
    initTaskReports();
    this.taskReports.addAll(taskReports);
}

private void addTaskReportsToProto() {
    maybeInitBuilder();
    builder.clearTaskReports();
    if (taskReports == null)
        return;
    Iterable<TaskReportProto> iterable = new Iterable<TaskReportProto>() {
        @Override
        public Iterator<TaskReportProto> iterator() {

```

```

return new Iterator<TaskReportProto>() {

    Iterator<TaskReport> iter = taskReports.iterator();

    @Override
    public boolean hasNext() {
        return iter.hasNext();
    }

    @Override
    public TaskReportProto next() {
        return convertToProtoFormat(iter.next());
    }

    @Override
    public void remove() {
        throw new UnsupportedOperationException();
    }

};

}
};
builder.addAllTaskReports(iterable);
}
@Override
public void addTaskReport(TaskReport taskReports) {
    initTaskReports();
    this.taskReports.add(taskReports);
}
@Override
public void removeTaskReport(int index) {
    initTaskReports();
    this.taskReports.remove(index);
}
@Override
public void clearTaskReports() {
    initTaskReports();
    this.taskReports.clear();
}

private TaskReportPBImply convertFromProtoFormat(TaskReportProto p) {
    return new TaskReportPBImply(p);
}

private TaskReportProto convertToProtoFormat(TaskReport t) {
    return ((TaskReportPBImply)t).getProto();
}

```

```

}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptCompletionEventsRequest;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.JobIdPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptCompletionEventsRequestProto;
import
org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptCompletionEventsRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class GetTaskAttemptCompletionEventsRequestPBImp extends
ProtoBase<GetTaskAttemptCompletionEventsRequestProto> implements
GetTaskAttemptCompletionEventsRequest {
    GetTaskAttemptCompletionEventsRequestProto proto =
GetTaskAttemptCompletionEventsRequestProto.getDefaultInstance();
    GetTaskAttemptCompletionEventsRequestProto.Builder builder = null;
    boolean viaProto = false;

    private JobId jobId = null;

```

```

public GetTaskAttemptCompletionEventsRequestPBImpl() {
    builder = GetTaskAttemptCompletionEventsRequestProto.newBuilder();
}

public GetTaskAttemptCompletionEventsRequestPBImpl(GetTaskAttemptCompletionEventsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetTaskAttemptCompletionEventsRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.jobId != null) {
        builder.setJobId(convertToProtoFormat(this.jobId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetTaskAttemptCompletionEventsRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public JobId getJobId() {
    GetTaskAttemptCompletionEventsRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.jobId != null) {
        return this.jobId;
    }
    if (!p.hasJobId()) {
        return null;
    }
    this.jobId = convertFromProtoFormat(p.getJobId());
}

```



```

    return this.jobId;
}

@Override
public void setJobId(JobId jobId) {
    maybeInitBuilder();
    if (jobId == null)
        builder.clearJobId();
    this.jobId = jobId;
}

@Override
public int getFromEventId() {
    GetTaskAttemptCompletionEventsRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getFromEventId());
}

@Override
public void setFromEventId(int fromEventId) {
    maybeInitBuilder();
    builder.setFromEventId((fromEventId));
}

@Override
public int getMaxEvents() {
    GetTaskAttemptCompletionEventsRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getMaxEvents());
}

@Override
public void setMaxEvents(int maxEvents) {
    maybeInitBuilder();
    builder.setMaxEvents((maxEvents));
}

private JobIdPBImpl convertFromProtoFormat(JobIdProto p) {
    return new JobIdPBImpl(p);
}

private JobIdProto convertToProtoFormat(JobId t) {
    return ((JobIdPBImpl)t).getProto();
}

}

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```

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 \*/

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;
```

```
import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetJobReportRequest;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.JobIdPBImp;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetJobReportRequestProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetJobReportRequestProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class GetJobReportRequestPBImp extends ProtoBase<GetJobReportRequestProto> implements
GetJobReportRequest {
  GetJobReportRequestProto proto = GetJobReportRequestProto.getDefaultInstance();
  GetJobReportRequestProto.Builder builder = null;
  boolean viaProto = false;
```

```
  private JobId jobId = null;
```

```
  public GetJobReportRequestPBImp() {
    builder = GetJobReportRequestProto.newBuilder();
  }
```

```
  public GetJobReportRequestPBImp(GetJobReportRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }
```

```
  public GetJobReportRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
```

```

    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.jobId != null) {
        builder.setJobId(convertToProtoFormat(this.jobId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetJobReportRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public JobId getJobId() {
    GetJobReportRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.jobId != null) {
        return this.jobId;
    }
    if (!p.hasJobId()) {
        return null;
    }
    this.jobId = convertFromProtoFormat(p.getJobId());
    return this.jobId;
}

@Override
public void setJobId(JobId jobId) {
    maybeInitBuilder();
    if (jobId == null)
        builder.clearJobId();
    this.jobId = jobId;
}

private JobIdPbImpl convertFromProtoFormat(JobIdProto p) {

```

```

    return new JobIdPBIImpl(p);
}

private JobIdProto convertToProtoFormat(JobId t) {
    return ((JobIdPBIImpl)t).getProto();
}

}

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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskAttemptReportResponse;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptReport;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskAttemptReportPBIImpl;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptReportProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptReportResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskAttemptReportResponseProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class GetTaskAttemptReportResponsePBIImpl extends ProtoBase<GetTaskAttemptReportResponseProto>
implements GetTaskAttemptReportResponse {
    GetTaskAttemptReportResponseProto proto = GetTaskAttemptReportResponseProto.getDefaultInstance();
    GetTaskAttemptReportResponseProto.Builder builder = null;
    boolean viaProto = false;

    private TaskAttemptReport taskAttemptReport = null;

```

```

public GetTaskAttemptReportResponsePBImp() {
    builder = GetTaskAttemptReportResponseProto.newBuilder();
}

public GetTaskAttemptReportResponsePBImp(GetTaskAttemptReportResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetTaskAttemptReportResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.taskAttemptReport != null) {
        builder.setTaskAttemptReport(convertToProtoFormat(this.taskAttemptReport));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetTaskAttemptReportResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public TaskAttemptReport getTaskAttemptReport() {
    GetTaskAttemptReportResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskAttemptReport != null) {
        return this.taskAttemptReport;
    }
    if (!p.hasTaskAttemptReport()) {
        return null;
    }
}

```

```

    }
    this.taskAttemptReport = convertFromProtoFormat(p.getTaskAttemptReport());
    return this.taskAttemptReport;
}

@Override
public void setTaskAttemptReport(TaskAttemptReport taskAttemptReport) {
    maybeInitBuilder();
    if (taskAttemptReport == null)
        builder.clearTaskAttemptReport();
    this.taskAttemptReport = taskAttemptReport;
}

private TaskAttemptReportPBImply convertFromProtoFormat(TaskAttemptReportProto p) {
    return new TaskAttemptReportPBImply(p);
}

private TaskAttemptReportProto convertToProtoFormat(TaskAttemptReport t) {
    return ((TaskAttemptReportPBImply)t).getProto();
}

}
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 */

package org.apache.hadoop.mapreduce.v2.api.protocolrecords.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.protocolrecords.GetTaskReportResponse;
import org.apache.hadoop.mapreduce.v2.api.records.TaskReport;
import org.apache.hadoop.mapreduce.v2.api.records.impl.pb.TaskReportPBImply;

```

```

import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskReportProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportResponseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRServiceProtos.GetTaskReportResponseProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

```

```

public class GetTaskReportResponsePBIImpl extends ProtoBase<GetTaskReportResponseProto> implements
GetTaskReportResponse {

```

```

    GetTaskReportResponseProto proto = GetTaskReportResponseProto.getDefaultInstance();
    GetTaskReportResponseProto.Builder builder = null;
    boolean viaProto = false;

```

```

    private TaskReport taskReport = null;

```

```

    public GetTaskReportResponsePBIImpl() {
        builder = GetTaskReportResponseProto.newBuilder();
    }

```

```

    public GetTaskReportResponsePBIImpl(GetTaskReportResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

```

```

    public GetTaskReportResponseProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

```

```

    private void mergeLocalToBuilder() {
        if (this.taskReport != null) {
            builder.setTaskReport(convertToProtoFormat(this.taskReport));
        }
    }

```

```

    private void mergeLocalToProto() {
        if (viaProto)
            maybeInitBuilder();
        mergeLocalToBuilder();
        proto = builder.build();
        viaProto = true;
    }

```

```

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {

```

```

    builder = GetTaskReportResponseProto.newBuilder(proto);
  }
  viaProto = false;
}

@Override
public TaskReport getTaskReport() {
  GetTaskReportResponseProtoOrBuilder p = viaProto ? proto : builder;
  if (this.taskReport != null) {
    return this.taskReport;
  }
  if (!p.hasTaskReport()) {
    return null;
  }
  this.taskReport = convertFromProtoFormat(p.getTaskReport());
  return this.taskReport;
}

@Override
public void setTaskReport(TaskReport taskReport) {
  maybeInitBuilder();
  if (taskReport == null)
    builder.clearTaskReport();
  this.taskReport = taskReport;
}

private TaskReportPBImply convertFromProtoFormat(TaskReportProto p) {
  return new TaskReportPBImply(p);
}

private TaskReportProto convertToProtoFormat(TaskReport t) {
  return ((TaskReportPBImply)t).getProto();
}

}
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```



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*/
```

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords;
```

```
import java.util.List;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEvent;
```

```
public interface GetTaskAttemptCompletionEventsResponse {
    public abstract List<TaskAttemptCompletionEvent> getCompletionEventList();
    public abstract TaskAttemptCompletionEvent getCompletionEvent(int index);
    public abstract int getCompletionEventCount();
```

```
    public abstract void addAllCompletionEvents(List<TaskAttemptCompletionEvent> eventList);
    public abstract void addCompletionEvent(TaskAttemptCompletionEvent event);
    public abstract void removeCompletionEvent(int index);
    public abstract void clearCompletionEvents();
```

```
}
```

```
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```

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```

```
*/
```

```
package org.apache.hadoop.mapreduce.v2.api.protocolrecords;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
```

```
public interface GetTaskAttemptCompletionEventsRequest {
    public abstract JobId getJobId();
```

```

public abstract int getFromEventId();
public abstract int getMaxEvents();

public abstract void setJobId(JobId jobId);
public abstract void setFromEventId(int id);
public abstract void setMaxEvents(int maxEvents);
}
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 */

package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEvent;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEventStatus;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptCompletionEventProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptCompletionEventProtoOrBuilder;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptCompletionEventStatusProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProto;
import org.apache.hadoop.mapreduce.v2.util.MRProtoUtils;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

public class TaskAttemptCompletionEventPBImpl extends ProtoBase<TaskAttemptCompletionEventProto>
implements TaskAttemptCompletionEvent {
    TaskAttemptCompletionEventProto proto = TaskAttemptCompletionEventProto.getDefaultInstance();
    TaskAttemptCompletionEventProto.Builder builder = null;
    boolean viaProto = false;

    private TaskAttemptId taskAttemptId = null;

```

```

public TaskAttemptCompletionEventPBImpl() {
    builder = TaskAttemptCompletionEventProto.newBuilder();
}

public TaskAttemptCompletionEventPBImpl(TaskAttemptCompletionEventProto proto) {
    this.proto = proto;
    viaProto = true;
}

public TaskAttemptCompletionEventProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.taskAttemptId != null) {
        builder.setAttemptId(convertToProtoFormat(this.taskAttemptId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = TaskAttemptCompletionEventProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public TaskAttemptId getAttemptId() {
    TaskAttemptCompletionEventProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskAttemptId != null) {
        return this.taskAttemptId;
    }
    if (!p.hasAttemptId()) {
        return null;
    }
}

```

```

    this.taskAttemptId = convertFromProtoFormat(p.getAttemptId());
    return this.taskAttemptId;
}

@Override
public void setAttemptId(TaskAttemptId attemptId) {
    maybeInitBuilder();
    if (attemptId == null)
        builder.clearAttemptId();
    this.taskAttemptId = attemptId;
}

@Override
public TaskAttemptCompletionEventStatus getStatus() {
    TaskAttemptCompletionEventProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasStatus()) {
        return null;
    }
    return convertFromProtoFormat(p.getStatus());
}

@Override
public void setStatus(TaskAttemptCompletionEventStatus status) {
    maybeInitBuilder();
    if (status == null) {
        builder.clearStatus();
        return;
    }
    builder.setStatus(convertToProtoFormat(status));
}

@Override
public String getMapOutputServerAddress() {
    TaskAttemptCompletionEventProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasMapOutputServerAddress()) {
        return null;
    }
    return (p.getMapOutputServerAddress());
}

@Override
public void setMapOutputServerAddress(String mapOutputServerAddress) {
    maybeInitBuilder();
    if (mapOutputServerAddress == null) {
        builder.clearMapOutputServerAddress();
        return;
    }
    builder.setMapOutputServerAddress((mapOutputServerAddress));
}

@Override

```

```

public int getAttemptRunTime() {
    TaskAttemptCompletionEventProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getAttemptRunTime());
}

@Override
public void setAttemptRunTime(int attemptRunTime) {
    maybeInitBuilder();
    builder.setAttemptRunTime((attemptRunTime));
}

@Override
public int getEventId() {
    TaskAttemptCompletionEventProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getEventId());
}

@Override
public void setEventId(int eventId) {
    maybeInitBuilder();
    builder.setEventId((eventId));
}

private TaskAttemptIdPbImpl convertFromProtoFormat(TaskAttemptIdProto p) {
    return new TaskAttemptIdPbImpl(p);
}

private TaskAttemptIdProto convertToProtoFormat(TaskAttemptId t) {
    return ((TaskAttemptIdPbImpl)t).getProto();
}

private TaskAttemptCompletionEventStatusProto convertToProtoFormat(TaskAttemptCompletionEventStatus e) {
    return MRProtoUtils.convertToProtoFormat(e);
}

private TaskAttemptCompletionEventStatus convertFromProtoFormat(TaskAttemptCompletionEventStatusProto e)
{
    return MRProtoUtils.convertFromProtoFormat(e);
}

}

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```

```

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*/

```

```
package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;
```

```

import org.apache.hadoop.mapreduce.v2.api.records.Counter;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CounterProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CounterProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;

```

```

public class CounterPBImpl extends ProtoBase<CounterProto> implements Counter {
    CounterProto proto = CounterProto.getDefaultInstance();
    CounterProto.Builder builder = null;
    boolean viaProto = false;

```

```

    public CounterPBImpl() {
        builder = CounterProto.newBuilder();
    }

```

```

    public CounterPBImpl(CounterProto proto) {
        this.proto = proto;
        viaProto = true;
    }

```

```

    public CounterProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

```

```

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = CounterProto.newBuilder(proto);
        }
        viaProto = false;
    }

```

```

@Override
public String getName() {
    CounterProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasName()) {
        return null;
    }
    return (p.getName());
}

```

```

@Override
public void setName(String name) {
    maybeInitBuilder();
    if (name == null) {
        builder.clearName();
        return;
    }
    builder.setName((name));
}

```

```

@Override
public long getValue() {
    CounterProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getValue());
}

```

```

@Override
public void setValue(long value) {
    maybeInitBuilder();
    builder.setValue((value));
}

```

```

@Override
public String getDisplayName() {
    CounterProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasDisplayName()) {
        return null;
    }
    return (p.getDisplayName());
}

```

```

@Override
public void setDisplayName(String displayName) {
    maybeInitBuilder();
    if (displayName == null) {
        builder.clearDisplayName();
        return;
    }
    builder.setDisplayName((displayName));
}

```

```
}
```

```
}
```

```
/**
```

```
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*/
```

```
package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;
```

```
import java.util.ArrayList;
```

```
import java.util.List;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.AMInfo;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.JobReport;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.JobState;
```

```
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.AMInfoProto;
```

```
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProto;
```

```
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobReportProto;
```

```
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobReportProtoOrBuilder;
```

```
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobStateProto;
```

```
import org.apache.hadoop.mapreduce.v2.util.MRProtoUtils;
```

```
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class JobReportPBImp extends ProtoBase<JobReportProto> implements
```

```
    JobReport {
```

```
    JobReportProto proto = JobReportProto.getDefaultInstance();
```

```
    JobReportProto.Builder builder = null;
```

```
    boolean viaProto = false;
```



```

private JobId jobId = null;
private List<AMInfo> amInfos = null;

public JobReportPBImp() {
    builder = JobReportProto.newBuilder();
}

public JobReportPBImp(JobReportProto proto) {
    this.proto = proto;
    viaProto = true;
}

public synchronized JobReportProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private synchronized void mergeLocalToBuilder() {
    if (this.jobId != null) {
        builder.setJobId(convertToProtoFormat(this.jobId));
    }
    if (this.amInfos != null) {
        addAMInfosToProto();
    }
}

private synchronized void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = JobReportProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public synchronized JobId getJobId() {

```

```

JobReportProtoOrBuilder p = viaProto ? proto : builder;
if (this.jobId != null) {
    return this.jobId;
}
if (!p.hasJobId()) {
    return null;
}
this.jobId = convertFromProtoFormat(p.getJobId());
return this.jobId;
}

```

@Override

```

public synchronized void setJobId(JobId jobId) {
    maybeInitBuilder();
    if (jobId == null)
        builder.clearJobId();
    this.jobId = jobId;
}

```

@Override

```

public synchronized JobState getJobState() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasJobState()) {
        return null;
    }
    return convertFromProtoFormat(p.getJobState());
}

```

@Override

```

public synchronized void setJobState(JobState jobState) {
    maybeInitBuilder();
    if (jobState == null) {
        builder.clearJobState();
        return;
    }
    builder.setJobState(convertToProtoFormat(jobState));
}

```

@Override

```

public synchronized float getMapProgress() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getMapProgress());
}

```

@Override

```

public synchronized void setMapProgress(float mapProgress) {
    maybeInitBuilder();
    builder.setMapProgress((mapProgress));
}

```

@Override

```

public synchronized float getReduceProgress() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getReduceProgress());
}

@Override
public synchronized void setReduceProgress(float reduceProgress) {
    maybeInitBuilder();
    builder.setReduceProgress((reduceProgress));
}

@Override
public synchronized float getCleanupProgress() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getCleanupProgress());
}

@Override
public synchronized void setCleanupProgress(float cleanupProgress) {
    maybeInitBuilder();
    builder.setCleanupProgress((cleanupProgress));
}

@Override
public synchronized float getSetupProgress() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getSetupProgress());
}

@Override
public synchronized void setSetupProgress(float setupProgress) {
    maybeInitBuilder();
    builder.setSetupProgress((setupProgress));
}

@Override
public synchronized long getSubmitTime() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getSubmitTime());
}

@Override
public synchronized void setSubmitTime(long submitTime) {
    maybeInitBuilder();
    builder.setSubmitTime((submitTime));
}

@Override
public synchronized long getStartTime() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;

```

```

    return (p.getStartTime());
}

@Override
public synchronized void setStartTime(long startTime) {
    maybeInitBuilder();
    builder.setStartTime((startTime));
}

@Override
public synchronized long getFinishTime() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getFinishTime());
}

@Override
public synchronized void setFinishTime(long finishTime) {
    maybeInitBuilder();
    builder.setFinishTime((finishTime));
}

@Override
public synchronized String getUser() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getUser());
}

@Override
public synchronized void setUser(String user) {
    maybeInitBuilder();
    builder.setUser((user));
}

@Override
public synchronized String getJobName() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getJobName());
}

@Override
public synchronized void setJobName(String jobName) {
    maybeInitBuilder();
    builder.setJobName((jobName));
}

@Override
public synchronized String getTrackingUrl() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getTrackingUrl());
}

```

```

}

@Override
public synchronized void setTrackingUrl(String trackingUrl) {
    maybeInitBuilder();
    builder.setTrackingUrl(trackingUrl);
}

@Override
public synchronized String getDiagnostics() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return p.getDiagnostics();
}

@Override
public synchronized void setDiagnostics(String diagnostics) {
    maybeInitBuilder();
    builder.setDiagnostics(diagnostics);
}

@Override
public synchronized String getJobFile() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return p.getJobFile();
}

@Override
public synchronized void setJobFile(String jobFile) {
    maybeInitBuilder();
    builder.setJobFile(jobFile);
}

@Override
public synchronized List<AMInfo> getAMInfos() {
    initAMInfos();
    return this.amInfos;
}

@Override
public synchronized void setAMInfos(List<AMInfo> amInfos) {
    maybeInitBuilder();
    if (amInfos == null) {
        this.builder.clearAmInfos();
        this.amInfos = null;
        return;
    }
    initAMInfos();
    this.amInfos.clear();
}

```

```

    this.amInfos.addAll(amInfos);
}

private synchronized void initAMInfos() {
    if (this.amInfos != null) {
        return;
    }
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    List<AMInfoProto> list = p.getAmInfosList();

    this.amInfos = new ArrayList<AMInfo>();

    for (AMInfoProto amInfoProto : list) {
        this.amInfos.add(convertFromProtoFormat(amInfoProto));
    }
}

private synchronized void addAMInfosToProto() {
    maybeInitBuilder();
    builder.clearAmInfos();
    if (this.amInfos == null)
        return;
    for (AMInfo amInfo : this.amInfos) {
        builder.addAmInfos(convertToProtoFormat(amInfo));
    }
}

private AMInfoPBImpl convertFromProtoFormat(AMInfoProto p) {
    return new AMInfoPBImpl(p);
}

private AMInfoProto convertToProtoFormat(AMInfo t) {
    return ((AMInfoPBImpl)t).getProto();
}

private JobIdPBImpl convertFromProtoFormat(JobIdProto p) {
    return new JobIdPBImpl(p);
}

private JobIdProto convertToProtoFormat(JobId t) {
    return ((JobIdPBImpl)t).getProto();
}

private JobStateProto convertToProtoFormat(JobState e) {
    return MRProtoUtils.convertToProtoFormat(e);
}

```

```

private JobState convertFromProtoFormat(JobStateProto e) {
    return MRProtoUtils.convertFromProtoFormat(e);
}

@Override
public synchronized boolean isUber() {
    JobReportProtoOrBuilder p = viaProto ? proto : builder;
    return p.getIsUber();
}

@Override
public synchronized void setIsUber(boolean isUber) {
    maybeInitBuilder();
    builder.setIsUber(isUber);
}
}
}
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 */

package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationIdProto;

public class JobIdPBImpl extends JobId {

    JobIdProto proto = JobIdProto.getDefaultInstance();
    JobIdProto.Builder builder = null;
    boolean viaProto = false;

```

```

private ApplicationId applicationId = null;

public JobIdPBImpl() {
    builder = JobIdProto.newBuilder();
}

public JobIdPBImpl(JobIdProto proto) {
    this.proto = proto;
    viaProto = true;
}

public synchronized JobIdProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private synchronized void mergeLocalToBuilder() {
    if (this.applicationId != null
        && !((ApplicationIdPBImpl) this.applicationId).getProto().equals(
            builder.getAppId())) {
        builder.setAppId(convertToProtoFormat(this.applicationId));
    }
}

private synchronized void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = JobIdProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public synchronized ApplicationId getAppId() {
    JobIdProtoOrBuilder p = viaProto ? proto : builder;
    if (applicationId != null) {
        return applicationId;
    }
}

```



```

    } // Else via proto
    if (!p.hasAppId()) {
        return null;
    }
    applicationId = convertFromProtoFormat(p.getAppId());
    return applicationId;
}

@Override
public synchronized void setAppId(ApplicationId appId) {
    maybeInitBuilder();
    if (appId == null) {
        builder.clearAppId();
    }
    this.applicationId = appId;
}

@Override
public synchronized int getId() {
    JobIdProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getId());
}

@Override
public synchronized void setId(int id) {
    maybeInitBuilder();
    builder.setId(id);
}

private ApplicationIdPBImpl convertFromProtoFormat(
    ApplicationIdProto p) {
    return new ApplicationIdPBImpl(p);
}

private ApplicationIdProto convertToProtoFormat(ApplicationId t) {
    return ((ApplicationIdPBImpl) t).getProto();
}
}
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 *
 */

```

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- \*/

```
package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.JobIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskIdProtoOrBuilder;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskTypeProto;
import org.apache.hadoop.mapreduce.v2.util.MRProtoUtils;
```

```
public class TaskIdPBImpl extends TaskId {
    TaskIdProto proto = TaskIdProto.getDefaultInstance();
    TaskIdProto.Builder builder = null;
    boolean viaProto = false;

    private JobId jobId = null;

    public TaskIdPBImpl() {
        builder = TaskIdProto.newBuilder(proto);
    }

    public TaskIdPBImpl(TaskIdProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public synchronized TaskIdProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private synchronized void mergeLocalToBuilder() {
        if (this.jobId != null
            && !((JobIdPBImpl) this.jobId).getProto().equals(builder.getJobId())) {
            builder.setJobId(convertToProtoFormat(this.jobId));
        }
    }
}
```

```

private synchronized void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = TaskIdProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public synchronized int getId() {
    TaskIdProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getId());
}

@Override
public synchronized void setId(int id) {
    maybeInitBuilder();
    builder.setId(id);
}

@Override
public synchronized JobId getJobId() {
    TaskIdProtoOrBuilder p = viaProto ? proto : builder;
    if (this.jobId != null) {
        return this.jobId;
    }
    if (!p.hasJobId()) {
        return null;
    }
    jobId = convertFromProtoFormat(p.getJobId());
    return jobId;
}

@Override
public synchronized void setJobId(JobId jobId) {
    maybeInitBuilder();
    if (jobId == null)
        builder.clearJobId();
    this.jobId = jobId;
}

```

```

@Override
public synchronized TaskType getTaskType() {
    TaskIdProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasTaskType()) {
        return null;
    }
    return convertFromProtoFormat(p.getTaskType());
}

@Override
public synchronized void setTaskType(TaskType taskType) {
    maybeInitBuilder();
    if (taskType == null) {
        builder.clearTaskType();
        return;
    }
    builder.setTaskType(convertToProtoFormat(taskType));
}

private JobIdPBImpl convertFromProtoFormat(JobIdProto p) {
    return new JobIdPBImpl(p);
}

private JobIdProto convertToProtoFormat(JobId t) {
    return ((JobIdPBImpl)t).getProto();
}

private TaskTypeProto convertToProtoFormat(TaskType e) {
    return MRProtoUtils.convertToProtoFormat(e);
}

private TaskType convertFromProtoFormat(TaskTypeProto e) {
    return MRProtoUtils.convertFromProtoFormat(e);
}
}
}

```

```
/**
```

```

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\*/

```
package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.records.AMInfo;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.AMInfoProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.AMInfoProtoOrBuilder;
import org.apache.hadoop.yarn.api.records.ApplicationAttemptId;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationAttemptIdPBImp;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImp;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationAttemptIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;

public class AMInfoPBImp extends ProtoBase<AMInfoProto> implements AMInfo {

    AMInfoProto proto = AMInfoProto.getDefaultInstance();
    AMInfoProto.Builder builder = null;
    boolean viaProto = false;

    private ApplicationAttemptId appAttemptId;
    private ContainerId containerId;

    public AMInfoPBImp() {
        builder = AMInfoProto.newBuilder();
    }

    public AMInfoPBImp(AMInfoProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public synchronized AMInfoProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private synchronized void mergeLocalToBuilder() {
        if (this.appAttemptId != null
            && !((ApplicationAttemptIdPBImp) this.appAttemptId).getProto().equals(
                builder.getApplicationAttemptId())) {
            builder.setApplicationAttemptId(convertToProtoFormat(this.appAttemptId));
        }
    }
}
```

```

    }
    if (this.getContainerId() != null
        && !((ContainerIdPBImp) this.containerId).getProto().equals(
            builder.getContainerId())) {
        builder.setContainerId(convertToProtoFormat(this.containerId));
    }
}

private synchronized void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = AMInfoProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public synchronized ApplicationAttemptId getAppAttemptId() {
    AMInfoProtoOrBuilder p = viaProto ? proto : builder;
    if (appAttemptId != null) {
        return appAttemptId;
    } // Else via proto
    if (!p.hasApplicationAttemptId()) {
        return null;
    }
    appAttemptId = convertFromProtoFormat(p.getApplicationAttemptId());
    return appAttemptId;
}

@Override
public synchronized void setAppAttemptId(ApplicationAttemptId appAttemptId) {
    maybeInitBuilder();
    if (appAttemptId == null) {
        builder.clearApplicationAttemptId();
    }
    this.appAttemptId = appAttemptId;
}

@Override
public synchronized long getStartTime() {
    AMInfoProtoOrBuilder p = viaProto ? proto : builder;

```

```

    return (p.getStartTime());
}

@Override
public synchronized void setStartTime(long startTime) {
    maybeInitBuilder();
    builder.setStartTime(startTime);
}

@Override
public synchronized ContainerId getContainerId() {
    AMInfoProtoOrBuilder p = viaProto ? proto : builder;
    if (containerId != null) {
        return containerId;
    } // Else via proto
    if (!p.hasContainerId()) {
        return null;
    }
    containerId = convertFromProtoFormat(p.getContainerId());
    return containerId;
}

@Override
public synchronized void setContainerId(ContainerId containerId) {
    maybeInitBuilder();
    if (containerId == null) {
        builder.clearContainerId();
    }
    this.containerId = containerId;
}

@Override
public synchronized String getNodeManagerHost() {
    AMInfoProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasNodeManagerHost()) {
        return null;
    }
    return p.getNodeManagerHost();
}

@Override
public synchronized void setNodeManagerHost(String nmHost) {
    maybeInitBuilder();
    if (nmHost == null) {
        builder.clearNodeManagerHost();
        return;
    }
    builder.setNodeManagerHost(nmHost);
}

```

```

}

@Override
public synchronized int getNodeManagerPort() {
    AMInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getNodeManagerPort());
}

@Override
public synchronized void setNodeManagerPort(int nmPort) {
    maybeInitBuilder();
    builder.setNodeManagerPort(nmPort);
}

@Override
public synchronized int getNodeManagerHttpPort() {
    AMInfoProtoOrBuilder p = viaProto ? proto : builder;
    return p.getNodeManagerHttpPort();
}

@Override
public synchronized void setNodeManagerHttpPort(int httpPort) {
    maybeInitBuilder();
    builder.setNodeManagerHttpPort(httpPort);
}

private ApplicationAttemptIdPBImpl convertFromProtoFormat(
    ApplicationAttemptIdProto p) {
    return new ApplicationAttemptIdPBImpl(p);
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private
    ApplicationAttemptIdProto convertToProtoFormat(ApplicationAttemptId t) {
    return ((ApplicationAttemptIdPBImpl) t).getProto();
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}
}
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```



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 \*/

```
package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;
```

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.Counters;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskReport;
import org.apache.hadoop.mapreduce.v2.api.records.TaskState;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CountersProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskReportProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskReportProtoOrBuilder;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskStateProto;
import org.apache.hadoop.mapreduce.v2.util.MRProtoUtils;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class TaskReportPBImpl extends ProtoBase<TaskReportProto> implements TaskReport {
    TaskReportProto proto = TaskReportProto.getDefaultInstance();
    TaskReportProto.Builder builder = null;
    boolean viaProto = false;
```

```
    private TaskId taskId = null;
    private Counters counters = null;
    private List<TaskAttemptId> runningAttempts = null;
    private TaskAttemptId successfulAttemptId = null;
    private List<String> diagnostics = null;
```

```

public TaskReportPBImp() {
    builder = TaskReportProto.newBuilder();
}

public TaskReportPBImp(TaskReportProto proto) {
    this.proto = proto;
    viaProto = true;
}

public TaskReportProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.taskId != null) {
        builder.setTaskId(convertToProtoFormat(this.taskId));
    }
    if (this.counters != null) {
        builder.setCounters(convertToProtoFormat(this.counters));
    }
    if (this.runningAttempts != null) {
        addRunningAttemptsToProto();
    }
    if (this.successfulAttemptId != null) {
        builder.setSuccessfulAttempt(convertToProtoFormat(this.successfulAttemptId));
    }
    if (this.diagnostics != null) {
        addDiagnosticsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = TaskReportProto.newBuilder(proto);
    }
    viaProto = false;
}

```

```

}

@Override
public Counters getCounters() {
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    if (this.counters != null) {
        return this.counters;
    }
    if (!p.hasCounters()) {
        return null;
    }
    this.counters = convertFromProtoFormat(p.getCounters());
    return this.counters;
}

```

```

@Override
public void setCounters(Counters counters) {
    maybeInitBuilder();
    if (counters == null)
        builder.clearCounters();
    this.counters = counters;
}

```

```

@Override
public long getStartTime() {
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getStartTime());
}

```

```

@Override
public void setStartTime(long startTime) {
    maybeInitBuilder();
    builder.setStartTime((startTime));
}

```

```

@Override
public long getFinishTime() {
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getFinishTime());
}

```

```

@Override
public void setFinishTime(long finishTime) {
    maybeInitBuilder();
    builder.setFinishTime((finishTime));
}

```

```

@Override

```

```

public TaskId getTaskId() {
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskId != null) {
        return this.taskId;
    }
    if (!p.hasTaskId()) {
        return null;
    }
    this.taskId = convertFromProtoFormat(p.getTaskId());
    return this.taskId;
}

```

```

@Override
public void setTaskId(TaskId taskId) {
    maybeInitBuilder();
    if (taskId == null)
        builder.clearTaskId();
    this.taskId = taskId;
}

```

```

@Override
public float getProgress() {
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getProgress());
}

```

```

@Override
public void setProgress(float progress) {
    maybeInitBuilder();
    builder.setProgress((progress));
}

```

```

@Override
public TaskState getTaskState() {
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasTaskState()) {
        return null;
    }
    return convertFromProtoFormat(p.getTaskState());
}

```

```

@Override
public void setTaskState(TaskState taskState) {
    maybeInitBuilder();
    if (taskState == null) {
        builder.clearTaskState();
        return;
    }
    builder.setTaskState(convertToProtoFormat(taskState));
}

```

```

@Override
public List<TaskAttemptId> getRunningAttemptsList() {
    initRunningAttempts();
    return this.runningAttempts;
}

@Override
public TaskAttemptId getRunningAttempt(int index) {
    initRunningAttempts();
    return this.runningAttempts.get(index);
}

@Override
public int getRunningAttemptsCount() {
    initRunningAttempts();
    return this.runningAttempts.size();
}

private void initRunningAttempts() {
    if (this.runningAttempts != null) {
        return;
    }
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    List<TaskAttemptIdProto> list = p.getRunningAttemptsList();
    this.runningAttempts = new ArrayList<TaskAttemptId>();

    for (TaskAttemptIdProto c : list) {
        this.runningAttempts.add(convertFromProtoFormat(c));
    }
}

@Override
public void addAllRunningAttempts(final List<TaskAttemptId> runningAttempts) {
    if (runningAttempts == null)
        return;
    initRunningAttempts();
    this.runningAttempts.addAll(runningAttempts);
}

private void addRunningAttemptsToProto() {
    maybeInitBuilder();
    builder.clearRunningAttempts();
    if (runningAttempts == null)
        return;
    Iterable<TaskAttemptIdProto> iterable = new Iterable<TaskAttemptIdProto>() {
        @Override
        public Iterator<TaskAttemptIdProto> iterator() {
            return new Iterator<TaskAttemptIdProto>() {

                Iterator<TaskAttemptId> iter = runningAttempts.iterator();

```

```

    @Override
    public boolean hasNext() {
        return iter.hasNext();
    }

    @Override
    public TaskAttemptIdProto next() {
        return convertToProtoFormat(iter.next());
    }

    @Override
    public void remove() {
        throw new UnsupportedOperationException();
    }
};

}
};
builder.addAllRunningAttempts(iterable);
}
@Override
public void addRunningAttempt(TaskAttemptId runningAttempts) {
    initRunningAttempts();
    this.runningAttempts.add(runningAttempts);
}
@Override
public void removeRunningAttempt(int index) {
    initRunningAttempts();
    this.runningAttempts.remove(index);
}
@Override
public void clearRunningAttempts() {
    initRunningAttempts();
    this.runningAttempts.clear();
}
@Override
public TaskAttemptId getSuccessfulAttempt() {
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    if (this.successfulAttemptId != null) {
        return this.successfulAttemptId;
    }
    if (!p.hasSuccessfulAttempt()) {
        return null;
    }
    this.successfulAttemptId = convertFromProtoFormat(p.getSuccessfulAttempt());
    return this.successfulAttemptId;
}

```

```

}

@Override
public void setSuccessfulAttempt(TaskAttemptId successfulAttempt) {
    maybeInitBuilder();
    if (successfulAttempt == null)
        builder.clearSuccessfulAttempt();
    this.successfulAttemptId = successfulAttempt;
}

@Override
public List<String> getDiagnosticsList() {
    initDiagnostics();
    return this.diagnostics;
}

@Override
public String getDiagnostics(int index) {
    initDiagnostics();
    return this.diagnostics.get(index);
}

@Override
public int getDiagnosticsCount() {
    initDiagnostics();
    return this.diagnostics.size();
}

private void initDiagnostics() {
    if (this.diagnostics != null) {
        return;
    }
    TaskReportProtoOrBuilder p = viaProto ? proto : builder;
    List<String> list = p.getDiagnosticsList();
    this.diagnostics = new ArrayList<String>();

    for (String c : list) {
        this.diagnostics.add(c);
    }
}

@Override
public void addAllDiagnostics(final List<String> diagnostics) {
    if (diagnostics == null)
        return;
    initDiagnostics();
    this.diagnostics.addAll(diagnostics);
}

private void addDiagnosticsToProto() {
    maybeInitBuilder();
}

```

```

    builder.clearDiagnostics();
    if (diagnostics == null)
        return;
    builder.addAllDiagnostics(diagnostics);
}
@Override
public void addDiagnostics(String diagnostics) {
    initDiagnostics();
    this.diagnostics.add(diagnostics);
}
@Override
public void removeDiagnostics(int index) {
    initDiagnostics();
    this.diagnostics.remove(index);
}
@Override
public void clearDiagnostics() {
    initDiagnostics();
    this.diagnostics.clear();
}

private CountersPBIImpl convertFromProtoFormat(CountersProto p) {
    return new CountersPBIImpl(p);
}

private CountersProto convertToProtoFormat(Counters t) {
    return ((CountersPBIImpl)t).getProto();
}

private TaskIdPBIImpl convertFromProtoFormat(TaskIdProto p) {
    return new TaskIdPBIImpl(p);
}

private TaskIdProto convertToProtoFormat(TaskId t) {
    return ((TaskIdPBIImpl)t).getProto();
}

private TaskStateProto convertToProtoFormat(TaskState e) {
    return MRProtoUtils.convertToProtoFormat(e);
}

private TaskState convertFromProtoFormat(TaskStateProto e) {
    return MRProtoUtils.convertFromProtoFormat(e);
}

private TaskAttemptIdPBIImpl convertFromProtoFormat(TaskAttemptIdProto p) {
    return new TaskAttemptIdPBIImpl(p);
}

```



```
private TaskAttemptIdProto convertToProtoFormat(TaskAttemptId t) {
    return ((TaskAttemptIdPBImpl)t).getProto();
}
```

```
}
```

```
/**
```

```
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*/
```

```
package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.Counters;
import org.apache.hadoop.mapreduce.v2.api.records.Phase;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptReport;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptState;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CountersProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.PhaseProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptReportProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptReportProtoOrBuilder;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptStateProto;
import org.apache.hadoop.mapreduce.v2.util.MRProtoUtils;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
```

```

public class TaskAttemptReportPBImpl extends ProtoBase<TaskAttemptReportProto> implements
TaskAttemptReport {
    TaskAttemptReportProto proto = TaskAttemptReportProto.getDefaultInstance();
    TaskAttemptReportProto.Builder builder = null;
    boolean viaProto = false;

    private TaskAttemptId taskAttemptId = null;
    private Counters counters = null;
    private ContainerId containerId = null;

    public TaskAttemptReportPBImpl() {
        builder = TaskAttemptReportProto.newBuilder();
    }

    public TaskAttemptReportPBImpl(TaskAttemptReportProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public TaskAttemptReportProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    private void mergeLocalToBuilder() {
        if (this.taskAttemptId != null) {
            builder.setTaskAttemptId(convertToProtoFormat(this.taskAttemptId));
        }
        if (this.counters != null) {
            builder.setCounters(convertToProtoFormat(this.counters));
        }
        if (this.containerId != null) {
            builder.setContainerId(convertToProtoFormat(this.containerId));
        }
    }

    private void mergeLocalToProto() {
        if (viaProto)
            maybeInitBuilder();
        mergeLocalToBuilder();
        proto = builder.build();
        viaProto = true;
    }

    private void maybeInitBuilder() {

```

```

if (viaProto || builder == null) {
    builder = TaskAttemptReportProto.newBuilder(proto);
}
viaProto = false;
}

@Override
public Counters getCounters() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    if (this.counters != null) {
        return this.counters;
    }
    if (!p.hasCounters()) {
        return null;
    }
    this.counters = convertFromProtoFormat(p.getCounters());
    return this.counters;
}

@Override
public void setCounters(Counters counters) {
    maybeInitBuilder();
    if (counters == null)
        builder.clearCounters();
    this.counters = counters;
}

@Override
public long getStartTime() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getStartTime());
}

@Override
public void setStartTime(long startTime) {
    maybeInitBuilder();
    builder.setStartTime((startTime));
}

@Override
public long getFinishTime() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getFinishTime());
}

@Override
public void setFinishTime(long finishTime) {
    maybeInitBuilder();
    builder.setFinishTime((finishTime));
}

```

```

}

@Override
public long getShuffleFinishTime() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getShuffleFinishTime());
}

@Override
public void setShuffleFinishTime(long time) {
    maybeInitBuilder();
    builder.setShuffleFinishTime(time);
}

@Override
public long getSortFinishTime() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getSortFinishTime());
}

@Override
public void setSortFinishTime(long time) {
    maybeInitBuilder();
    builder.setSortFinishTime(time);
}

@Override
public TaskAttemptId getTaskAttemptId() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskAttemptId != null) {
        return this.taskAttemptId;
    }
    if (!p.hasTaskAttemptId()) {
        return null;
    }
    this.taskAttemptId = convertFromProtoFormat(p.getTaskAttemptId());
    return this.taskAttemptId;
}

@Override
public void setTaskAttemptId(TaskAttemptId taskAttemptId) {
    maybeInitBuilder();
    if (taskAttemptId == null)
        builder.clearTaskAttemptId();
    this.taskAttemptId = taskAttemptId;
}

@Override
public TaskAttemptState getTaskAttemptState() {

```

```

TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
if (!p.hasTaskAttemptState()) {
    return null;
}
return convertFromProtoFormat(p.getTaskAttemptState());
}

@Override
public void setTaskAttemptState(TaskAttemptState taskAttemptState) {
    maybeInitBuilder();
    if (taskAttemptState == null) {
        builder.clearTaskAttemptState();
        return;
    }
    builder.setTaskAttemptState(convertToProtoFormat(taskAttemptState));
}

@Override
public float getProgress() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getProgress());
}

@Override
public void setProgress(float progress) {
    maybeInitBuilder();
    builder.setProgress((progress));
}

@Override
public String getDiagnosticInfo() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasDiagnosticInfo()) {
        return null;
    }
    return (p.getDiagnosticInfo());
}

@Override
public void setDiagnosticInfo(String diagnosticInfo) {
    maybeInitBuilder();
    if (diagnosticInfo == null) {
        builder.clearDiagnosticInfo();
        return;
    }
    builder.setDiagnosticInfo((diagnosticInfo));
}

@Override
public String getStateString() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;

```

```

    if (!p.hasStateString()) {
        return null;
    }
    return (p.getStateString());
}

@Override
public void setStateString(String stateString) {
    maybeInitBuilder();
    if (stateString == null) {
        builder.clearStateString();
        return;
    }
    builder.setStateString((stateString));
}

@Override
public Phase getPhase() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasPhase()) {
        return null;
    }
    return convertFromProtoFormat(p.getPhase());
}

@Override
public void setPhase(Phase phase) {
    maybeInitBuilder();
    if (phase == null) {
        builder.clearPhase();
        return;
    }
    builder.setPhase(convertToProtoFormat(phase));
}

@Override
public String getNodeManagerHost() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasNodeManagerHost()) {
        return null;
    }
    return p.getNodeManagerHost();
}

@Override
public void setNodeManagerHost(String nmHost) {
    maybeInitBuilder();
    if (nmHost == null) {
        builder.clearNodeManagerHost();
    }
}

```

```

        return;
    }
    builder.setNodeManagerHost(nmHost);
}

@Override
public int getNodeManagerPort() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getNodeManagerPort());
}

@Override
public void setNodeManagerPort(int nmPort) {
    maybeInitBuilder();
    builder.setNodeManagerPort(nmPort);
}

@Override
public int getNodeManagerHttpPort() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getNodeManagerHttpPort());
}

@Override
public void setNodeManagerHttpPort(int nmHttpPort) {
    maybeInitBuilder();
    builder.setNodeManagerHttpPort(nmHttpPort);
}

@Override
public ContainerId getContainerId() {
    TaskAttemptReportProtoOrBuilder p = viaProto ? proto : builder;
    if (containerId != null) {
        return containerId;
    } // Else via proto
    if (!p.hasContainerId()) {
        return null;
    }
    containerId = convertFromProtoFormat(p.getContainerId());
    return containerId;
}

@Override
public void setContainerId(ContainerId containerId) {
    maybeInitBuilder();
    if (containerId == null) {
        builder.clearContainerId();
    }
}

```

```

    this.containerId = containerId;
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPbImpl)t).getProto();
}

private ContainerIdPbImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPbImpl(p);
}

private CountersPbImpl convertFromProtoFormat(CountersProto p) {
    return new CountersPbImpl(p);
}

private CountersProto convertToProtoFormat(Counters t) {
    return ((CountersPbImpl)t).getProto();
}

private TaskAttemptIdPbImpl convertFromProtoFormat(TaskAttemptIdProto p) {
    return new TaskAttemptIdPbImpl(p);
}

private TaskAttemptIdProto convertToProtoFormat(TaskAttemptId t) {
    return ((TaskAttemptIdPbImpl)t).getProto();
}

private TaskAttemptStateProto convertToProtoFormat(TaskAttemptState e) {
    return MRProtoUtils.convertToProtoFormat(e);
}

private TaskAttemptState convertFromProtoFormat(TaskAttemptStateProto e) {
    return MRProtoUtils.convertFromProtoFormat(e);
}

private PhaseProto convertToProtoFormat(Phase e) {
    return MRProtoUtils.convertToProtoFormat(e);
}

private Phase convertFromProtoFormat(PhaseProto e) {
    return MRProtoUtils.convertFromProtoFormat(e);
}
}
}
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```



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 \*/

```
package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;
```

```
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.Counter;
import org.apache.hadoop.mapreduce.v2.api.records.CounterGroup;
import org.apache.hadoop.mapreduce.v2.api.records.Counters;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CounterGroupProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CountersProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CountersProtoOrBuilder;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.StringCounterGroupMapProto;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class CountersPBImpl extends ProtoBase<CountersProto> implements Counters {
    CountersProto proto = CountersProto.getDefaultInstance();
    CountersProto.Builder builder = null;
    boolean viaProto = false;
```

```
    private Map<String, CounterGroup> counterGroups = null;
```

```
    public CountersPBImpl() {
        builder = CountersProto.newBuilder();
    }
```

```
    public CountersPBImpl(CountersProto proto) {
        this.proto = proto;
        viaProto = true;
    }
```

```

public CountersProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.counterGroups != null) {
        addCounterGroupsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = CountersProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public Map<String, CounterGroup> getAllCounterGroups() {
    initCounterGroups();
    return this.counterGroups;
}

@Override
public CounterGroup getCounterGroup(String key) {
    initCounterGroups();
    return this.counterGroups.get(key);
}

@Override
public Counter getCounter(Enum<?> key) {
    CounterGroup group = getCounterGroup(key.getDeclaringClass().getName());
    return group == null ? null : group.getCounter(key.name());
}

@Override
public void incrCounter(Enum<?> key, long amount) {

```

```

String groupName = key.getDeclaringClass().getName();
if (getCounterGroup(groupName) == null) {
    CounterGroup cGrp = new CounterGroupPBImpl();
    cGrp.setName(groupName);
    cGrp.setDisplayName(groupName);
    setCounterGroup(groupName, cGrp);
}
if (getCounterGroup(groupName).getCounter(key.name()) == null) {
    Counter c = new CounterPBImpl();
    c.setName(key.name());
    c.setDisplayName(key.name());
    c.setValue(0l);
    getCounterGroup(groupName).setCounter(key.name(), c);
}
Counter counter = getCounterGroup(groupName).getCounter(key.name());
counter.setValue(counter.getValue() + amount);
}

private void initCounterGroups() {
    if (this.counterGroups != null) {
        return;
    }
    CountersProtoOrBuilder p = viaProto ? proto : builder;
    List<StringCounterGroupMapProto> list = p.getCounterGroupsList();
    this.counterGroups = new HashMap<String, CounterGroup>();

    for (StringCounterGroupMapProto c : list) {
        this.counterGroups.put(c.getKey(), convertFromProtoFormat(c.getValue()));
    }
}

@Override
public void addAllCounterGroups(final Map<String, CounterGroup> counterGroups) {
    if (counterGroups == null)
        return;
    initCounterGroups();
    this.counterGroups.putAll(counterGroups);
}

private void addCounterGroupsToProto() {
    maybeInitBuilder();
    builder.clearCounterGroups();
    if (counterGroups == null)
        return;
    Iterable<StringCounterGroupMapProto> iterable = new Iterable<StringCounterGroupMapProto>() {

        @Override
        public Iterator<StringCounterGroupMapProto> iterator() {

```

```

return new Iterator<StringCounterGroupMapProto>() {

    Iterator<String> keyIter = counterGroups.keySet().iterator();

    @Override
    public void remove() {
        throw new UnsupportedOperationException();
    }

    @Override
    public StringCounterGroupMapProto next() {
        String key = keyIter.next();
        return
StringCounterGroupMapProto.newBuilder().setKey(key).setValue(convertToProtoFormat(counterGroups.get(key)))
.build();
    }

    @Override
    public boolean hasNext() {
        return keyIter.hasNext();
    }
};
}
};
builder.addAllCounterGroups(iterable);
}
@Override
public void setCounterGroup(String key, CounterGroup val) {
    initCounterGroups();
    this.counterGroups.put(key, val);
}
@Override
public void removeCounterGroup(String key) {
    initCounterGroups();
    this.counterGroups.remove(key);
}
@Override
public void clearCounterGroups() {
    initCounterGroups();
    this.counterGroups.clear();
}

private CounterGroupPBImpl convertFromProtoFormat(CounterGroupProto p) {
    return new CounterGroupPBImpl(p);
}

private CounterGroupProto convertToProtoFormat(CounterGroup t) {
    return ((CounterGroupPBImpl)t).getProto();
}

```

```

}
}
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 */

```

```
package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;
```

```
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
```

```
import org.apache.hadoop.mapreduce.v2.api.records.Counter;
import org.apache.hadoop.mapreduce.v2.api.records.CounterGroup;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CounterGroupProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CounterGroupProtoOrBuilder;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.CounterProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.StringCounterMapProto;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoBase;
```

```
public class CounterGroupPBImpl extends ProtoBase<CounterGroupProto> implements CounterGroup {
    CounterGroupProto proto = CounterGroupProto.getDefaultInstance();
    CounterGroupProto.Builder builder = null;
    boolean viaProto = false;
```

```
    private Map<String, Counter> counters = null;
```

```
    public CounterGroupPBImpl() {
        builder = CounterGroupProto.newBuilder();
    }

```

```

}

public CounterGroupPBImp(CounterGroupProto proto) {
    this.proto = proto;
    viaProto = true;
}

public CounterGroupProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToBuilder() {
    if (this.counters != null) {
        addConterstoProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = CounterGroupProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public String getName() {
    CounterGroupProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasName()) {
        return null;
    }
    return (p.getName());
}

@Override
public void setName(String name) {
    maybeInitBuilder();
}

```

```

    if (name == null) {
        builder.clearName();
        return;
    }
    builder.setName((name));
}
@Override
public String getDisplayName() {
    CounterGroupProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasDisplayName()) {
        return null;
    }
    return (p.getDisplayName());
}

@Override
public void setDisplayName(String displayName) {
    maybeInitBuilder();
    if (displayName == null) {
        builder.clearDisplayName();
        return;
    }
    builder.setDisplayName((displayName));
}
@Override
public Map<String, Counter> getAllCounters() {
    initCounters();
    return this.counters;
}
@Override
public Counter getCounter(String key) {
    initCounters();
    return this.counters.get(key);
}

private void initCounters() {
    if (this.counters != null) {
        return;
    }
    CounterGroupProtoOrBuilder p = viaProto ? proto : builder;
    List<StringCounterMapProto> list = p.getCountersList();
    this.counters = new HashMap<String, Counter>();

    for (StringCounterMapProto c : list) {
        this.counters.put(c.getKey(), convertFromProtoFormat(c.getValue()));
    }
}

```

```

@Override
public void addAllCounters(final Map<String, Counter> counters) {
    if (counters == null)
        return;
    initCounters();
    this.counters.putAll(counters);
}

private void addConterstoProto() {
    maybeInitBuilder();
    builder.clearCounters();
    if (counters == null)
        return;
    Iterable<StringCounterMapProto> iterable = new Iterable<StringCounterMapProto>() {

        @Override
        public Iterator<StringCounterMapProto> iterator() {
            return new Iterator<StringCounterMapProto>() {

                Iterator<String> keyIter = counters.keySet().iterator();

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }

                @Override
                public StringCounterMapProto next() {
                    String key = keyIter.next();
                    return
StringCounterMapProto.newBuilder().setKey(key).setValue(convertToProtoFormat(counters.get(key))).build();
                }

                @Override
                public boolean hasNext() {
                    return keyIter.hasNext();
                }
            };
        }
    };
    builder.addAllCounters(iterable);
}

@Override
public void setCounter(String key, Counter val) {
    initCounters();
    this.counters.put(key, val);
}

@Override

```



```

public void removeCounter(String key) {
    initCounters();
    this.counters.remove(key);
}
@Override
public void clearCounters() {
    initCounters();
    this.counters.clear();
}

private CounterPBImpl convertFromProtoFormat(CounterProto p) {
    return new CounterPBImpl(p);
}

private CounterProto convertToProtoFormat(Counter t) {
    return ((CounterPBImpl)t).getProto();
}
}
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 */

package org.apache.hadoop.mapreduce.v2.api.records.impl.pb;

import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProto;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskAttemptIdProtoOrBuilder;
import org.apache.hadoop.mapreduce.v2.proto.MRProtos.TaskIdProto;

public class TaskAttemptIdPBImpl extends TaskAttemptId {
    TaskAttemptIdProto proto = TaskAttemptIdProto.getDefaultInstance();
    TaskAttemptIdProto.Builder builder = null;
    boolean viaProto = false;

```

```

private TaskId taskId = null;

public TaskAttemptIdPBImp() {
    builder = TaskAttemptIdProto.newBuilder();
}

public TaskAttemptIdPBImp(TaskAttemptIdProto proto) {
    this.proto = proto;
    viaProto = true;
}

public synchronized TaskAttemptIdProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private synchronized void mergeLocalToBuilder() {
    if (this.taskId != null
        && !((TaskIdPBImp) this.taskId).getProto().equals(builder.getTaskId())) {
        builder.setTaskId(convertToProtoFormat(this.taskId));
    }
}

private synchronized void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = TaskAttemptIdProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public synchronized int getId() {
    TaskAttemptIdProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getId());
}

```

```

}

@Override
public synchronized void setId(int id) {
    maybeInitBuilder();
    builder.setId((id));
}

@Override
public synchronized TaskId getTaskId() {
    TaskAttemptIdProtoOrBuilder p = viaProto ? proto : builder;
    if (this.taskId != null) {
        return this.taskId;
    }
    if (!p.hasTaskId()) {
        return null;
    }
    taskId = convertFromProtoFormat(p.getTaskId());
    return taskId;
}

@Override
public synchronized void setTaskId(TaskId taskId) {
    maybeInitBuilder();
    if (taskId == null)
        builder.clearTaskId();
    this.taskId = taskId;
}

private TaskIdPBImpl convertFromProtoFormat(TaskIdProto p) {
    return new TaskIdPBImpl(p);
}

private TaskIdProto convertToProtoFormat(TaskId t) {
    return ((TaskIdPBImpl)t).getProto();
}
}
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*/
```

```
package org.apache.hadoop.mapreduce.v2.api.records;
```

```
public interface TaskAttemptCompletionEvent {  
    public abstract TaskAttemptId getAttemptId();  
    public abstract TaskAttemptCompletionEventStatus getStatus();  
    public abstract String getMapOutputServerAddress();  
    public abstract int getAttemptRunTime();  
    public abstract int getEventId();  
  
    public abstract void setAttemptId(TaskAttemptId taskAttemptId);  
    public abstract void setStatus(TaskAttemptCompletionEventStatus status);  
    public abstract void setMapOutputServerAddress(String address);  
    public abstract void setAttemptRunTime(int runTime);  
    public abstract void setEventId(int eventId);  
}
```

```
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```

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*/
```

```
package org.apache.hadoop.mapreduce.v2.api.records;
```

```
public enum TaskAttemptCompletionEventStatus {  
    FAILED,  
    KILLED,  
    SUCCEEDED,  
    OBSOLETE,  
    TIPFAILED  
}
```

# 1.243 hadoop-mapreduce-client-core 2.2.0

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 */
```

```
package org.apache.hadoop.mapred.lib;
```

```
import java.io.IOException;
import java.util.ArrayList;
import java.util.Random;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.mapred.InputFormat;
import org.apache.hadoop.mapred.InputSplit;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.RecordReader;
import org.apache.hadoop.mapred.Reporter;
import org.apache.hadoop.mapreduce.Job;
```

```
@InterfaceAudience.Public
@InterfaceStability.Stable
public class InputSampler<K,V> extends
    org.apache.hadoop.mapreduce.lib.partition.InputSampler<K, V> {

    private static final Log LOG = LogFactory.getLog(InputSampler.class);

    public InputSampler(JobConf conf) {
```

```

    super(conf);
}

public static <K,V> void writePartitionFile(JobConf job, Sampler<K,V> sampler)
    throws IOException, ClassNotFoundException, InterruptedException {
    writePartitionFile(new Job(job), sampler);
}
/**
 * Interface to sample using an {@link org.apache.hadoop.mapred.InputFormat}.
 */
public interface Sampler<K,V> extends
    org.apache.hadoop.mapreduce.lib.partition.InputSampler.Sampler<K, V> {
    /**
     * For a given job, collect and return a subset of the keys from the
     * input data.
     */
    K[] getSample(InputFormat<K,V> inf, JobConf job) throws IOException;
}

/**
 * Samples the first n records from s splits.
 * Inexpensive way to sample random data.
 */
public static class SplitSampler<K,V> extends
    org.apache.hadoop.mapreduce.lib.partition.InputSampler.SplitSampler<K, V>
    implements Sampler<K,V> {

    /**
     * Create a SplitSampler sampling all splits.
     * Takes the first numSamples / numSplits records from each split.
     * @param numSamples Total number of samples to obtain from all selected
     *     splits.
     */
    public SplitSampler(int numSamples) {
        this(numSamples, Integer.MAX_VALUE);
    }

    /**
     * Create a new SplitSampler.
     * @param numSamples Total number of samples to obtain from all selected
     *     splits.
     * @param maxSplitsSampled The maximum number of splits to examine.
     */
    public SplitSampler(int numSamples, int maxSplitsSampled) {
        super(numSamples, maxSplitsSampled);
    }

    /**

```

```

* From each split sampled, take the first numSamples / numSplits records.
*/
@SuppressWarnings("unchecked") // ArrayList::toArray doesn't preserve type
public K[] getSample(InputFormat<K,V> inf, JobConf job) throws IOException {
    InputSplit[] splits = inf.getSplits(job, job.getNumMapTasks());
    ArrayList<K> samples = new ArrayList<K>(numSamples);
    int splitsToSample = Math.min(maxSplitsSampled, splits.length);
    int splitStep = splits.length / splitsToSample;
    int samplesPerSplit = numSamples / splitsToSample;
    long records = 0;
    for (int i = 0; i < splitsToSample; ++i) {
        RecordReader<K,V> reader = inf.getRecordReader(splits[i * splitStep],
            job, Reporter.NULL);
        K key = reader.createKey();
        V value = reader.createValue();
        while (reader.next(key, value)) {
            samples.add(key);
            key = reader.createKey();
            ++records;
            if ((i+1) * samplesPerSplit <= records) {
                break;
            }
        }
        reader.close();
    }
    return (K[])samples.toArray();
}

/**
 * Sample from random points in the input.
 * General-purpose sampler. Takes numSamples / maxSplitsSampled inputs from
 * each split.
 */
public static class RandomSampler<K,V> extends
    org.apache.hadoop.mapreduce.lib.partition.InputSampler.RandomSampler<K, V>
    implements Sampler<K,V> {

    /**
     * Create a new RandomSampler sampling <em>all</em> splits.
     * This will read every split at the client, which is very expensive.
     * @param freq Probability with which a key will be chosen.
     * @param numSamples Total number of samples to obtain from all selected
     *     splits.
     */
    public RandomSampler(double freq, int numSamples) {
        this(freq, numSamples, Integer.MAX_VALUE);
    }
}

```

```

/**
 * Create a new RandomSampler.
 * @param freq Probability with which a key will be chosen.
 * @param numSamples Total number of samples to obtain from all selected
 *       splits.
 * @param maxSplitsSampled The maximum number of splits to examine.
 */
public RandomSampler(double freq, int numSamples, int maxSplitsSampled) {
    super(freq, numSamples, maxSplitsSampled);
}

/**
 * Randomize the split order, then take the specified number of keys from
 * each split sampled, where each key is selected with the specified
 * probability and possibly replaced by a subsequently selected key when
 * the quota of keys from that split is satisfied.
 */
@SuppressWarnings("unchecked") // ArrayList::toArray doesn't preserve type
public K[] getSample(InputFormat<K,V> inf, JobConf job) throws IOException {
    InputSplit[] splits = inf.getSplits(job, job.getNumMapTasks());
    ArrayList<K> samples = new ArrayList<K>(numSamples);
    int splitsToSample = Math.min(maxSplitsSampled, splits.length);

    Random r = new Random();
    long seed = r.nextLong();
    r.setSeed(seed);
    LOG.debug("seed: " + seed);
    // shuffle splits
    for (int i = 0; i < splits.length; ++i) {
        InputSplit tmp = splits[i];
        int j = r.nextInt(splits.length);
        splits[i] = splits[j];
        splits[j] = tmp;
    }
    // our target rate is in terms of the maximum number of sample splits,
    // but we accept the possibility of sampling additional splits to hit
    // the target sample keyset
    for (int i = 0; i < splitsToSample ||
         (i < splits.length && samples.size() < numSamples); ++i) {
        RecordReader<K,V> reader = inf.getRecordReader(splits[i], job,
            Reporter.NULL);
        K key = reader.createKey();
        V value = reader.createValue();
        while (reader.next(key, value)) {
            if (r.nextDouble() <= freq) {
                if (samples.size() < numSamples) {
                    samples.add(key);
                }
            }
        }
    }
}

```



```

    } else {
        // When exceeding the maximum number of samples, replace a
        // random element with this one, then adjust the frequency
        // to reflect the possibility of existing elements being
        // pushed out
        int ind = r.nextInt(numSamples);
        if (ind != numSamples) {
            samples.set(ind, key);
        }
        freq *= (numSamples - 1) / (double) numSamples;
    }
    key = reader.createKey();
}
}
reader.close();
}
return (K[])samples.toArray();
}
}

/**
 * Sample from s splits at regular intervals.
 * Useful for sorted data.
 */
public static class IntervalSampler<K,V> extends
    org.apache.hadoop.mapreduce.lib.partition.InputSampler.IntervalSampler<K, V>
    implements Sampler<K,V> {

    /**
     * Create a new IntervalSampler sampling <em>all</em> splits.
     * @param freq The frequency with which records will be emitted.
     */
    public IntervalSampler(double freq) {
        this(freq, Integer.MAX_VALUE);
    }

    /**
     * Create a new IntervalSampler.
     * @param freq The frequency with which records will be emitted.
     * @param maxSplitsSampled The maximum number of splits to examine.
     * @see #getSample
     */
    public IntervalSampler(double freq, int maxSplitsSampled) {
        super(freq, maxSplitsSampled);
    }

    /**
     * For each split sampled, emit when the ratio of the number of records

```

```

* retained to the total record count is less than the specified
* frequency.
*/
@SuppressWarnings("unchecked") // ArrayList::toArray doesn't preserve type
public K[] getSample(InputFormat<K,V> inf, JobConf job) throws IOException {
    InputSplit[] splits = inf.getSplits(job, job.getNumMapTasks());
    ArrayList<K> samples = new ArrayList<K>();
    int splitsToSample = Math.min(maxSplitsSampled, splits.length);
    int splitStep = splits.length / splitsToSample;
    long records = 0;
    long kept = 0;
    for (int i = 0; i < splitsToSample; ++i) {
        RecordReader<K,V> reader = inf.getRecordReader(splits[i * splitStep],
            job, Reporter.NULL);
        K key = reader.createKey();
        V value = reader.createValue();
        while (reader.next(key, value)) {
            ++records;
            if ((double) kept / records < freq) {
                ++kept;
                samples.add(key);
                key = reader.createKey();
            }
        }
        reader.close();
    }
    return (K[])samples.toArray();
}
}

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 */

```

```

package org.apache.hadoop.mapred;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * This is used to track task completion events on
 * job tracker.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public class TaskCompletionEvent
    extends org.apache.hadoop.mapreduce.TaskCompletionEvent {
    @InterfaceAudience.Public
    @InterfaceStability.Stable
    static public enum Status {FAILED, KILLED, SUCCEEDED, OBSOLETE, TIPFAILED};

    public static final TaskCompletionEvent[] EMPTY_ARRAY =
        new TaskCompletionEvent[0];
    /**
     * Default constructor for Writable.
     */
    public TaskCompletionEvent() {
        super();
    }

    /**
     * Constructor. eventId should be created externally and incremented
     * per event for each job.
     * @param eventId event id, event id should be unique and assigned in
     * incrementally, starting from 0.
     * @param taskId task id
     * @param status task's status
     * @param taskTrackerHttp task tracker's host:port for http.
     */
    public TaskCompletionEvent(int eventId,
                               TaskAttemptID taskId,
                               int idWithinJob,
                               boolean isMap,
                               Status status,
                               String taskTrackerHttp){
        super(eventId, taskId, idWithinJob, isMap, org.apache.hadoop.mapreduce.
            TaskCompletionEvent.Status.valueOf(status.name()), taskTrackerHttp);
    }
}

```

```

@Private
public static TaskCompletionEvent downgrade(
    org.apache.hadoop.mapreduce.TaskCompletionEvent event) {
    return new TaskCompletionEvent(event.getEventId(),
        TaskAttemptID.downgrade(event.getTaskAttemptId()),event.idWithinJob(),
        event.isMapTask(), Status.valueOf(event.getStatus().name()),
        event.getTaskTrackerHttp());
}
/**
 * Returns task id.
 * @return task id
 * @deprecated use { @link #getTaskAttemptId()} instead.
 */
@Deprecated
public String getTaskId() {
    return getTaskAttemptId().toString();
}

/**
 * Returns task id.
 * @return task id
 */
public TaskAttemptID getTaskAttemptId() {
    return TaskAttemptID.downgrade(super.getTaskAttemptId());
}

/**
 * Returns enum Status.SUCCESS or Status.FAILURE.
 * @return task tracker status
 */
public Status getTaskStatus() {
    return Status.valueOf(super.getStatus().name());
}

/**
 * Sets task id.
 * @param taskId
 * @deprecated use { @link #setTaskAttemptId(TaskAttemptID)} instead.
 */
@Deprecated
public void setTaskId(String taskId) {
    this.setTaskAttemptId(TaskAttemptID.forName(taskId));
}

/**
 * Sets task id.
 * @param taskId
 * @deprecated use { @link #setTaskAttemptId(TaskAttemptID)} instead.

```

```

*/
@Deprecated
public void setTaskID(TaskAttemptID taskId) {
    this.setTaskAttemptId(taskId);
}

/**
 * Sets task id.
 * @param taskId
 */
protected void setTaskAttemptId(TaskAttemptID taskId) {
    super.setTaskAttemptId(taskId);
}

/**
 * Set task status.
 * @param status
 */
@Private
public void setTaskStatus(Status status) {
    super.setTaskStatus(org.apache.hadoop.mapreduce.
        TaskCompletionEvent.Status.valueOf(status.name()));
}

/**
 * Set the task completion time
 * @param taskCompletionTime time (in millisec) the task took to complete
 */
@Private
public void setTaskRunTime(int taskCompletionTime) {
    super.setTaskRunTime(taskCompletionTime);
}

/**
 * set event Id. should be assigned incrementally starting from 0.
 * @param eventId
 */
@Private
public void setEventId(int eventId) {
    super.setEventId(eventId);
}

/**
 * Set task tracker http location.
 * @param taskTrackerHttp
 */
@Private
public void setTaskTrackerHttp(String taskTrackerHttp) {

```

```

    super.setTaskTrackerHttp(taskTrackerHttp);
}
}
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 */

package org.apache.hadoop.mapred;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.util.Progressable;

@InterfaceAudience.Private
@InterfaceStability.Unstable
public class JobContextImpl
    extends org.apache.hadoop.mapreduce.task.JobContextImpl
    implements JobContext {
    private JobConf job;
    private Progressable progress;

    public JobContextImpl(JobConf conf, org.apache.hadoop.mapreduce.JobID jobId,
        Progressable progress) {
        super(conf, jobId);
        this.job = conf;
        this.progress = progress;
    }

    public JobContextImpl(JobConf conf, org.apache.hadoop.mapreduce.JobID jobId) {
        this(conf, jobId, Reporter.NULL);
    }

    /**
     * Get the job Configuration
     */

```

```

* @return JobConf
*/
public JobConf getJobConf() {
    return job;
}

/**
* Get the progress mechanism for reporting progress.
*
* @return progress mechanism
*/
public Progressable getProgressible() {
    return progress;
}
}

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*/

package org.apache.hadoop.mapred;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.mapreduce.Counter;
import org.apache.hadoop.util.Progressable;

@InterfaceAudience.Private
@InterfaceStability.Unstable
public class TaskAttemptContextImpl
    extends org.apache.hadoop.mapreduce.task.TaskAttemptContextImpl
    implements TaskAttemptContext {
    private Reporter reporter;

    public TaskAttemptContextImpl(JobConf conf, TaskAttemptID taskid) {
        this(conf, taskid, Reporter.NULL);
    }
}

```

```

}

TaskAttemptContextImpl(JobConf conf, TaskAttemptID taskid,
    Reporter reporter) {
    super(conf, taskid);
    this.reporter = reporter;
}

/**
 * Get the taskAttemptID.
 *
 * @return TaskAttemptID
 */
public TaskAttemptID getTaskAttemptID() {
    return (TaskAttemptID) super.getTaskAttemptID();
}

public Progressable getProgressable() {
    return reporter;
}

public JobConf getJobConf() {
    return (JobConf) getConfiguration();
}

@Override
public float getProgress() {
    return reporter.getProgress();
}

@Override
public Counter getCounter(Enum<?> counterName) {
    return reporter.getCounter(counterName);
}

@Override
public Counter getCounter(String groupName, String counterName) {
    return reporter.getCounter(groupName, counterName);
}

/**
 * Report progress.
 */
@Override
public void progress() {
    reporter.progress();
}

```



```

/**
 * Set the current status of the task to the given string.
 */
@Override
public void setStatus(String status) {
    setStatusString(status);
    reporter.setStatus(status);
}

}
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 */
package org.apache.hadoop.mapred;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.Writable;

/**
 * A class that represents the communication between the tracker and child
 * tasks w.r.t the map task completion events. It also indicates whether the
 * child task should reset its events index.
 */
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class MapTaskCompletionEventsUpdate implements Writable {
    TaskCompletionEvent[] events;
    boolean reset;

```

```

public MapTaskCompletionEventsUpdate() { }

public MapTaskCompletionEventsUpdate(TaskCompletionEvent[] events,
    boolean reset) {
    this.events = events;
    this.reset = reset;
}

public boolean shouldReset() {
    return reset;
}

public TaskCompletionEvent[] getMapTaskCompletionEvents() {
    return events;
}

public void write(DataOutput out) throws IOException {
    out.writeBoolean(reset);
    out.writeInt(events.length);
    for (TaskCompletionEvent event : events) {
        event.write(out);
    }
}

public void readFields(DataInput in) throws IOException {
    reset = in.readBoolean();
    events = new TaskCompletionEvent[in.readInt()];
    for (int i = 0; i < events.length; ++i) {
        events[i] = new TaskCompletionEvent();
        events[i].readFields(in);
    }
}
}

```

## 1.244 hadoop-mapreduce-client-jobclient

### 2.2.0

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# 1.245 hadoop-mapreduce-client-shuffle 2.2.0

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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\* Hibernate, Relational Persistence for Idiomatic Java

\*

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```
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Java ClassMate library was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi))

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## 1.293 httpClient 4.1.2

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(1)

ExceptionConverter:

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order.  
The codec classes that you used originally were based on some

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As of Java SE 1.4 an official Image I/O framework was  
added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created  
to support formats handled by JAI but not included in Java SE  
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Version 3, 19 November 2007

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## 1.311 Jackson 1.9.2

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# 1.312 Jackson 1.8.2

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```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

```
/* Jackson JSON-processor.
```

```
*
```

```
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```

```
*
```

```
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# 1.354 Java Transaction API 1.0.0.Final

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## 1.396 JAX-RS provider for JSON content type

### 1.9.2

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found  
from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well  
as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- \* Reading (parsing) and writing (generation) of Json content
- \* Data-binding (data-mapping, [de-]serialization) support to  
allow for converting between Json and Java objects
- \* Support for converting to/from other data formats and access APIs,  
to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made  
to support other non-standard platforms as well.

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## 1.397 JAX-WS (JSR-224) Reference

### Implementation 2.2.1

#### 1.397.1 Available under license :

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## 1.414 JCL 1.1.1 implemented over SLF4J 1.7.7

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# 1.416 jCommon 1.0.15

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Version 2.1, February 1999

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/\*--

\$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp \$

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```
*/
```

```
package org.jdom;
```

```
/**
```

```
 * An XML comment. Methods allow the user to get and set the text of the  
 * comment.
```

```
 *
```

```
 * @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
```

```
 * @author Brett McLaughlin
```

```
 * @author Jason Hunter
```

```
*/
```

```
public class Comment extends Content {
```

```
    private static final String CVS_ID =
```

```
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";
```

```
    /** Text of the <code>Comment</code> */
```

```
    protected String text;
```

```
    /**
```

```
     * Default, no-args constructor for implementations to use if needed.
```

```
    */
```

```
    protected Comment() {}
```

```
    /**
```

```
     * This creates the comment with the supplied text.
```

```
     *
```

```
     * @param text <code>String</code> content of comment.
```

```
    */
```

```
    public Comment(String text) {
```

```
        setText(text);
```

```
    }
```

```
    /**
```

```
     * Returns the XPath 1.0 string value of this element, which is the
```

```
     * text of this comment.
```

```
     *
```

```
     * @return the text of this comment
```

```
    */
```



```

public String getValue() {
    return text;
}

/**
 * This returns the textual data within the <code>Comment</code>.
 *
 * @return <code>String</code> - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the <code>Comment</code>.
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalArgumentException if the given text is illegal for a
 *     Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalArgumentException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * { @link org.jdom.output.XMLOutputter#outputString(Comment) }
 * should be used.
 *
 * @return <code>String</code> - information about the
 *     <code>Attribute</code>
 */
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}

```

}

# 1.420 jdtdcore 3.1.0

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\*\*\*\*\*/

package org.eclipse.jdt.core;

```
import java.io.IOException;
import java.util.Enumeration;
import java.util.zip.ZipEntry;
import java.util.zip.ZipFile;
```

```

import org.apache.tools.ant.BuildException;
import org.apache.tools.ant.Task;
import org.eclipse.jdt.core.util.IClassFileReader;
import org.eclipse.jdt.core.util.ICodeAttribute;
import org.eclipse.jdt.core.util.IMethodInfo;
import org.eclipse.jdt.internal.antadapter.AntAdapterMessages;

/**
 * <p>An Ant task to find out if a class file or a jar contains debug attributes. If this is the case,
 * the property contains the value "has debug" after the call.
 * </p>
 * <p>
 * <code>&lt;eclipse.checkDebugAttributes property="hasDebug" file="{basedir}/bin/p/A.class"/&gt;</code>
 * </p>
 * <p>
 * For more information on Ant check out the website at http://jakarta.apache.org/ant/ .
 * </p>
 *
 * This is not intended to be subclassed by users.
 * @since 2.0
 */
public final class CheckDebugAttributes extends Task {

    private String file;
    private String property;

    public void execute() throws BuildException {
        if (this.file == null) {
            throw new BuildException(AntAdapterMessages.getString("checkDebugAttributes.file.argument.cannot.be.null"));
        }
        if (this.property == null) {
            throw new
BuildException(AntAdapterMessages.getString("checkDebugAttributes.property.argument.cannot.be.null"));
        }
        try {
            boolean hasDebugAttributes = false;
            if (org.eclipse.jdt.internal.compiler.util.Util.isArchiveFileName(this.file)) {
                ZipFile jarFile = new ZipFile(this.file);
                for (Enumeration entries = jarFile.entries(); !hasDebugAttributes && entries.hasMoreElements(); ) {
                    ZipEntry entry = (ZipEntry) entries.nextElement();
                    if (org.eclipse.jdt.internal.compiler.util.Util.isClassName(entry.getName())) {
                        IClassFileReader classFileReader = ToolFactory.createDefaultClassFileReader(this.file, entry.getName(),
IClassFileReader.ALL);
                        hasDebugAttributes = checkClassFile(classFileReader);
                    }
                }
            }
        }
    }
}

```

```

    }
    } else if (org.eclipse.jdt.internal.compiler.util.Util.isClassName(this.file)) {
        IClassFileReader classFileReader = ToolFactory.createDefaultClassFileReader(this.file, IClassFileReader.ALL);
        hasDebugAttributes = checkClassFile(classFileReader);
    } else {
        throw new
BuildException(AntAdapterMessages.getString("checkDebugAttributes.file.argument.must.be.a.classfile.or.a.jarfile
")); //$NON-NLS-1$
    }
    if (hasDebugAttributes) {
        getProject().setUserProperty(this.property, "has debug"); //$NON-NLS-1$
    }
    } catch (IOException e) {
        throw new BuildException(AntAdapterMessages.getString("checkDebugAttributes.ioexception.occured") +
this.file); //$NON-NLS-1$
    }
}
}

private boolean checkClassFile(IClassFileReader classFileReader) {
    IMethodInfo[] methodInfos = classFileReader.getMethodInfos();
    for (int i = 0, max = methodInfos.length; i < max; i++) {
        ICodeAttribute codeAttribute = methodInfos[i].getCodeAttribute();
        if (codeAttribute != null && codeAttribute.getLineNumberAttribute() != null) {
            return true;
        }
    }
    return false;
}

public void setFile(String value) {
    this.file = value;
}

public void setProperty(String value) {
    this.property = value;
}
}
}

```

## 1.421 jersey bundle 1.17

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## 1.474 JfreeChart 1.0.12

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# 1.509 junit 4.11

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## 1.510 JUnit 4.6

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# 1.543 org.springframework.aop

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## 1.544 org.springframework.asm

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## 1.547 org.springframework.expression

### 3.0.0.RELEASE

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 *
 */
package org.slf4j;

import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

```

```

/**
 * MarkerFactory is a utility class producing {@link Marker} instances as
 * appropriate for the logging system currently in use.
 *
 * <p>
 * This class is essentially implemented as a wrapper around an
 * {@link IMarkerFactory} instance bound at compile time.
 *
 * <p>
 * Please note that all methods in this class are static.
 *
 * @author Ceki G&uuml;lc&uuml;
 */
public class MarkerFactory {
    static IMarkerFactory markerFactory;

    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        } catch (Exception e) {
            // we should never get here
            Util.report("Unexpected failure while binding MarkerFactory", e);
        }
    }

/**
 * Return a Marker instance as specified by the name parameter using the
 * previously bound {@link IMarkerFactory} instance.
 *
 * @param name
 *         The name of the {@link Marker} object to return.
 * @return marker
 */
    public static Marker getMarker(String name) {
        return markerFactory.getMarker(name);
    }

/**
 * Create a marker which is detached (even at birth) from the MarkerFactory.
 *
 * @param name the name of the marker

```

```

* @return a dangling marker
* @since 1.5.1
*/
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
* Return the {@link IMarkerFactory} instance in use.
*
* <p>The IMarkerFactory instance is usually bound with this class at
* compile time.
*
* @return the IMarkerFactory instance in use
*/
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}
}

```

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## 1.591 snakeyaml 1.17

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## 1.592 Snappy for Java 1.0.4.1

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# 1.638 spring-asm 3.0.3.RELEASE

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## 1.639 spring-asm 3.0.0.RELEASE

### 1.639.1 Available under license :

Link to license in SpringSource repository broken. Opened a case with SpringSource support:

Linda Shonk (lshonk)

From: Yathiraj Udipi (yudupi)

Sent: Friday, August 06, 2010 7:14 AM

To: Yathiraj Udipi (yudupi); Linda Shonk (lshonk)

Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

Also Linda,

Just to clarify, what they mean by Spring projects is that - all `?org.springframework.XXXX?` modules, such as `org.springframework.beans`, `org.springframework.asm`, etc.

All the other third party jars distributed by springsource in the enterprise repository are named with a prefix `?org.springsource.XXXX?` for e.g. `org.springsource.organtlr` and they have their own separate licenses.

Thanks,

Yathi.

From: Yathiraj Udipi (yudupi)

Sent: Friday, August 06, 2010 7:00 AM

To: Linda Shonk (lshonk)

Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Hi Linda,

It should be the same Apache license for all Spring framework modules for all versions. So you should be fine. But in

the shipping XMP platform, we don't have any 3.0.1.RELEASE versions for any spring components.

message from springsource ?

?All Spring projects are licensed under the terms of the Apache License, Version 2.0. You may download the Apache License using the link below:

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<http://www.apache.org/licenses/LICENSE-2.0.txt>

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<http://www.apache.org/licenses/LICENSE-2.0.html>

For more info with regards to the Apache license:

<http://www.apache.org/licenses/>

Let me know if you have further questions.

Regards,

Lou-ann

?

2

Thanks,

Yathi.

From: Linda Shonk (lshonk)

Sent: Thursday, August 05, 2010 12:37 PM

To: Yathiraj Udupi (yudupi)

Subject: FW: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Got it okay for the 3.0.0 release. The 3.0.1 Release is also missing license information in the repository.

Linda

From: SpringSource Support [mailto:support@springsource.com]

Sent: Thursday, August 05, 2010 8:03 AM

To: Yathiraj Udupi (yudupi)

Cc: Linda Shonk (lshonk); Andrew Ballantyne (aballant)

Subject: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise

Repository

Please do not reply to this email, login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at [http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

Reference # 9815

Subject: URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

-----  
Product: Spring Modules

Sub product: Other

Severity: Development

Date Created: 2010-08-03 21:19:19

Last Updated: 2010-08-05 03:27:03

Status: Pending Customer FB

Version: 3.0.0.RELE

Platform: Other

CC: lshonk@cisco.com, aballant@cisco.com

Discussion Thread

-----  
Yathiraj Udupi on 2010-08-05 15:03:27:

Thanks Lou-ann for your response.

on 2010-08-05 05:36:54:

Hi Yathiraj,

Were you able check the link to the Apache license? I am coordinating with repository admin to fix the licenses

3

on the SpringSource repository. For the mean time, you may use the link that I sent in my last response to get the license for Spring 3.0.x

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 12:00:17:

Hi Yathiraj,

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For more info with regards to the Apache license:

<http://www.apache.org/licenses/>

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 00:14:46:

Hi Yathiraj,

I will look into this and will get back to you.

Regards,

Lou-ann

Yathiraj Udipi on 2010-08-03 21:19:19:

Hi,

We need to update the license information in our company License portal, for the Spring bundles that are shipped in Springsource dm Server 2.0, in the repository/ext folder.

This is required URGENTLY, so that we can ship our release.

When we look for the license file link from the Springsource enterprise repository, we get an error.

For example,

<http://www.springsource.com/repository/app/bundle/version/detail?name=org.springframework.asm&version=3.0.0.RELEASE>

.0.0.RELEASE

In the above link, the License hyperlink gives an error. Similarly we need the licence for all 3.0.0.RELEASE versioned Springframework module jars such as ASM, Beans, Context, Expression, JDBC, Test, Web, and others included in the repository/ext folder. All the "License" links for all of these modules throw an error like this -

<Error>

<Code>NoSuchKey</Code>

<Message>The specified key does not exist.</Message>

?

<Key>

ivy/bundles/release/org.springframework/org.springframework.asm/3.0.0.RELEASE/license-3.0.0.RELEASE.txt

</Key>

<RequestId>C36AA496B452C999</RequestId>

?

<HostId>

fdPz4L7hLvTnc8Do+aiWkb2Ck1Y6yu5ela3EueZ5p1ySr5w6Gcp0FgutiZxERJSp

</HostId>

</Error>

Can you please provide the license files for all of the Springframework modules in the repository/ext ?

Thanks,



Yathi.

Incident update link:

login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at [http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

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## 1.690 spring-core 3.0.5.RELEASE



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tax2 extension API (for basic Stax API, JSR-173)

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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd

- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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## 1.814 tomcat-jasper-el 7.0.42

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# 1.815 tomcat-jasper-el 8.0.21

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# 1.830 tomcat-juli 8.0.21

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## 1.833 tomcat-servlet-api 8.0.26

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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd

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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_web\_services\_client\_1\_3.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
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## 1.838 tomcat-util 7.0.59

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## 1.839 tomcat-util 7.0.55

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## 1.885 xmlParserAPIs (Xerces-J) 2.6.2

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## 1.886 XmlSchema 1.3.2

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*/

```

```
package org.apache.ws.commons.schema;
```

```
import javax.xml.namespace.QName;
```

```

/**
 * Class for the restriction of simpleType elements. Represents the World
 * Wide Web Consortium (W3C) restriction element for simple types.
 */

```

```
public class XmlSchemaSimpleTypeRestriction extends XmlSchemaSimpleTypeContent {
```

```

    /**
     * Creates new XmlSchemaSimpleTypeRestriction
     */

```

```

    public XmlSchemaSimpleTypeRestriction() {
        facets = new XmlSchemaObjectCollection();
    }

```

```
    XmlSchemaSimpleType baseType;
```

```

    public XmlSchemaSimpleType getBaseType() {
        return this.baseType;
    }

```

```

    public void setBaseType(XmlSchemaSimpleType baseType) {
        this.baseType = baseType;
    }

```

```
    QName baseTypeName;
```

```

    public QName getBaseTypeName() {
        return this.baseTypeName;
    }

```

```

    public void setBaseTypeName(QName baseTypeName) {
        this.baseTypeName = baseTypeName;
    }

```

```

XmlSchemaObjectCollection facets;// = new XmlSchemaObjectCollection();

public XmlSchemaObjectCollection getFacets() {
    return this.facets;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "<" + prefix + "restriction ";

    if (baseTypeName != null) {
        xml += "base=\"" + baseTypeName + "\">\n";
    } else {
        xml += ">\n";
        // inline def
        xml += baseType.toString(prefix, (tab + 1));
    }

    xml += facets.toString(prefix, (tab + 1));
    for (int i = 0; i < tab; i++)
        xml += "\t";
    xml += "</" + prefix + "restriction>\n";

    return xml;
}

}
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*/

```

```
package org.apache.ws.commons.schema;
```

```
import javax.xml.namespace.QName;
```

```
/**
```

```

* Class for the union of simpleType elements. Defines a simpleType element
* as a list of values of a specified data type. Represents the World
* Wide Web Consortium (W3C) union element.
*/

```

```
public class XmlSchemaSimpleTypeUnion extends XmlSchemaSimpleTypeContent {
```

```

    XmlSchemaObjectCollection baseTypes;
    String memberTypesSource;
    QName[] memberTypesQNames;

```

```

    public XmlSchemaSimpleTypeUnion() {
        baseTypes = new XmlSchemaObjectCollection();
    }

```

```

    public XmlSchemaObjectCollection getBaseTypes() {
        return this.baseTypes;
    }

```

```

    public void setMemberTypesSource(String memberTypesSources) {
        this.memberTypesSource = memberTypesSources;
    }

```

```

    public String getMemberTypesSource() {
        return this.memberTypesSource;
    }

```

```

    public QName[] getMemberTypesQNames() {
        return this.memberTypesQNames;
    }

```

```

}
/*

```

```

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*/

```

```
package org.apache.ws.commons.schema;
```

```
import javax.xml.namespace.QName;
```

```

/**
 * Class for complex types with a complex content model that are derived
 * by restriction. Restricts the contents of the complex type to a subset
 * of the inherited complex type. Represents the World Wide Web Consortium
 * (W3C) restriction element for complex content.
 */

```

```
public class XmlSchemaComplexContentRestriction extends XmlSchemaContent {
```

```

    /**
     * Creates new XmlSchemaComplexContentRestriction
     */

```

```

    public XmlSchemaComplexContentRestriction() {
        attributes = new XmlSchemaObjectCollection();
    }

```

```

    /** Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
    XmlSchemaAnyAttribute anyAttribute;

```

```

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

```

```

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return this.anyAttribute;
    }

```

```

/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef.
 * Collection of attributes for the simple type.
 */
XmlSchemaObjectCollection attributes;

public XmlSchemaObjectCollection getAttributes() {
    return this.attributes;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/*One of the XmlSchemaGroupRef, XmlSchemaChoice, XmlSchemaAll,
 * or XmlSchemaSequence classes.
 */
XmlSchemaParticle particle;

public XmlSchemaParticle getParticle() {
    return this.particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "restriction>\n";

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";

```

```

    xml += "</" + prefix + "restriction>\n";
    return xml;
}
}
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*/

package org.apache.ws.commons.schema;

import org.apache.ws.commons.schema.constants.Constants;

/**
* Class for complex types. Defines a complex type that determines the
* set of attributes and content of an element. Represents the World Wide
* Web Consortium (W3C) complexType element.
*/

public class XmlSchemaComplexType extends XmlSchemaType {
    XmlSchemaAnyAttribute anyAttribute, attributeWildcard;
    XmlSchemaObjectCollection attributes;
    XmlSchemaObjectTable attributeUses;
    XmlSchemaDerivationMethod block, blockResolved;
    XmlSchemaContentModel contentModel;
    XmlSchemaContentType contentType;
    XmlSchemaParticle particleType, particle;
    boolean isAbstract, isMixed;

    /**
    * Creates new XmlSchemaComplexType
    */
    public XmlSchemaComplexType(XmlSchema schema) {

```



```

    super(schema);
    attributes = new XmlSchemaObjectCollection();
    block = new XmlSchemaDerivationMethod(Constants.BlockConstants.NONE);
    isAbstract = false;
    isMixed = false;
}

public XmlSchemaAnyAttribute getAnyAttribute() {
    return anyAttribute;
}

public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
    this.anyAttribute = anyAttribute;
}

public XmlSchemaObjectCollection getAttributes() {
    return attributes;
}

public XmlSchemaObjectTable getAttributeUses() {
    return attributeUses;
}

public XmlSchemaAnyAttribute getAttributeWildcard() {
    return attributeWildcard;
}

public XmlSchemaDerivationMethod getBlock() {
    return block;
}

public void setBlock(XmlSchemaDerivationMethod block) {
    this.block = block;
}

public XmlSchemaDerivationMethod getBlockResolved() {
    return blockResolved;
}

public XmlSchemaContentModel getContentModel() {
    return contentModel;
}

public void setContentModel(XmlSchemaContentModel contentModel) {
    this.contentModel = contentModel;
}

public XmlSchemaContentType getContentType() {

```

```

    return contentType;
}

public void setContentType(XmlSchemaContentType contentType) {
    this.contentType = contentType;
}

public XmlSchemaParticle getContentTypeParticle() {
    return particleType;
}

public boolean isAbstract() {
    return isAbstract;
}

public void setAbstract(boolean b) {
    isAbstract = b;
}

public boolean isMixed() {
    return isMixed;
}

public void setMixed(boolean b) {
    isMixed = b;
}

public XmlSchemaParticle getParticle() {
    return particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    String typeName = name != null ? name : "";

    xml += "<" + prefix + "complexType name=\"" + typeName + "\">\n";
}

```

```

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    if (contentModel != null)
        xml += contentModel.toString(prefix, (tab + 1));

    for (int i = 0; i < attributes.getCount(); i++) {
        xml += attributes.getItem(i).toString(prefix, (tab + 1));
    }

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "complexType>\n";
    return xml;
}
}
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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for complex types with a complex content model derived by extension.
 * Extends the complex type by adding attributes or elements. Represents the
 * World Wide Web Consortium (W3C) extension element for complex content.
 */

public class XmlSchemaComplexContentExtension extends XmlSchemaContent {

```

```

/**
 * Creates new XmlSchemaComplexContentExtension
 */
public XmlSchemaComplexContentExtension() {
    attributes = new XmlSchemaObjectCollection();
}

/* Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
XmlSchemaAnyAttribute anyAttribute;

public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
    this.anyAttribute = anyAttribute;
}

public XmlSchemaAnyAttribute getAnyAttribute() {
    return this.anyAttribute;
}

/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
type.*/
XmlSchemaObjectCollection attributes;

public XmlSchemaObjectCollection getAttributes() {
    return this.attributes;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/*One of the XmlSchemaGroupRef, XmlSchemaChoice, XmlSchemaAll, or XmlSchemaSequence classes.*/
XmlSchemaParticle particle;

public XmlSchemaParticle getParticle() {
    return this.particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

```

```

}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "extension>\n";

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "extension>\n";
    return xml;
}
}
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 */

package org.apache.ws.commons.schema;

/**
 * Class that represents the complex content model for complex types.
 * Contains extensions or restrictions on a complex type that has mixed
 * content or elements only. Represents the World Wide Web Consortium (W3C)
 * complexContent element.
 */

```

```

// Vidyanand - 16th Oct - initial implementation

public class XmlSchemaComplexContent extends XmlSchemaContentModel {

    /**
     * Creates new XmlSchemaComplexContent
     */
    public XmlSchemaComplexContent() {
    }

    /** One of either the XmlSchemaComplexContentRestriction or
     * XmlSchemaComplexContentExtension classes.
     */
    XmlSchemaContent content;

    public XmlSchemaContent getContent() {
        return this.content;
    }

    public void setContent(XmlSchemaContent content) {
        this.content = content;
    }

    /** Indicates that this type has a mixed content model. Character data
     * is allowed to appear between the child elements of the complex type.
     */
    public boolean mixed;

    public boolean isMixed() {
        return this.mixed;
    }

    public void setMixed(boolean mixed) {
        this.mixed = mixed;
    }

    public String toString(String prefix, int tab) {
        String xml = new String();
        for (int i = 0; i < tab; i++)
            xml += "\t";

        if (!prefix.equals("") && prefix.indexOf(":") == -1)
            prefix += ":";

        xml += "<" + prefix + "complexContent>\n";

        xml += content.toString(prefix, (tab + 1));
    }
}

```

```

    for (int i = 0; i < tab; i++)
        xml += "\t";
    xml += "<" + prefix + "complexContent>\n";
    return xml;
}
}
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 */

package org.apache.ws.commons.schema;

/**
 * Class defines a simple type that determines the information and
 * constraints for the values of attributes or elements with text-only
 * content. Represents the World Wide Web Consortium (W3C) simpleType element.
 */

public class XmlSchemaSimpleType extends XmlSchemaType {

    XmlSchemaSimpleTypeContent content;

    /**
     * Creates new XmlSchemaSimpleType
     */
    public XmlSchemaSimpleType(XmlSchema schema) {
        super(schema);
    }

    public XmlSchemaSimpleTypeContent getContent() {
        return content;
    }
}

```

```

public void setContent(XmlSchemaSimpleTypeContent content) {
    this.content = content;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "simpleType>\n";

    if (content != null)
        xml += content.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "simpleType>\n";
    return xml;
}

}

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 */

package org.apache.ws.commons.schema;

```



```

import javax.xml.namespace.QName;

/**
 * Class for the list of simpleType elements. Defines a simpleType element
 * as a list of values of a specified data type. Represents the World Wide
 * Web Consortium (W3C) list element.
 */
public class XmlSchemaSimpleTypeList extends XmlSchemaSimpleTypeContent {

    /**
     * Creates new XmlSchemaSimpleTypeList
     */
    public XmlSchemaSimpleTypeList() {

        XmlSchemaSimpleType itemType;

        public XmlSchemaSimpleType getItemType() {
            return this.itemType;
        }

        public void setItemType(XmlSchemaSimpleType itemType) {
            this.itemType = itemType;
        }

        QName itemTypeName;

        public QName getItemTypeName() {
            return this.itemTypeName;
        }

        public void setItemTypeName(QName itemTypeName) {
            this.itemTypeName = itemTypeName;
        }

    }

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package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for simple types that are derived by restriction. Restricts the
 * range of values for the element to a subset of the inherited simple types.
 * Represents the World Wide Web Consortium (W3C) restriction element for simple content.
 */

public class XmlSchemaSimpleContentRestriction extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaSimpleContentRestriction
     */
    public XmlSchemaSimpleContentRestriction() {
        facets = new XmlSchemaObjectCollection();
        attributes = new XmlSchemaObjectCollection();
    }

    /** Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
    XmlSchemaAnyAttribute anyAttribute;

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return this.anyAttribute;
    }

    /** Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
    type.*/
    XmlSchemaObjectCollection attributes;

    public XmlSchemaObjectCollection getAttributes() {
        return this.attributes;
    }
}

```

```

/*Derived from the type specified by the base value.*/
XmlSchemaSimpleType baseType;

public void setBaseType(XmlSchemaSimpleType baseType) {
    this.baseType = baseType;
}

public XmlSchemaSimpleType getBaseType() {
    return this.baseType;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/* One or more of the facet classes: */
XmlSchemaObjectCollection facets;

public XmlSchemaObjectCollection getFacets() {
    return this.facets;
}

}
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```

```

*/

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for simple types that are derived by extension. Extends the simple
 * type content of the element by adding attributes. Represents the World Wide
 * Web Consortium (W3C) extension element for simple content.
 */

public class XmlSchemaSimpleContentExtension extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaSimpleContentExtension
     */
    public XmlSchemaSimpleContentExtension() {
        attributes = new XmlSchemaObjectCollection();
    }

    /** Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
    XmlSchemaAnyAttribute anyAttribute;

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return this.anyAttribute;
    }

    /** Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
    type.*/
    XmlSchemaObjectCollection attributes;

    public XmlSchemaObjectCollection getAttributes() {
        return this.attributes;
    }

    /** Name of the built-in data type, simple type, or complex type.*/
    QName baseTypeName;

    public void setBaseTypeName(QName baseTypeName) {
        this.baseTypeName = baseTypeName;
    }
}

```

```

public QName getBaseTypeName() {
    return this.baseTypeName;
}

}

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*/

package org.apache.ws.commons.schema;

/**
* Abstract class for simple type content classes.
*/

public abstract class XmlSchemaSimpleTypeContent extends XmlSchemaAnnotated {

    /**
    * Creates new XmlSchemaSimpleTypeContent
    */
    protected XmlSchemaSimpleTypeContent() {
    }

}

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*/

package org.apache.ws.commons.schema;

/**
 * Class for simple types and complex types with a simple content model.
 * Represents the World Wide Web Consortium (W3C) simpleContent element.
 */

public class XmlSchemaSimpleContent extends XmlSchemaContentModel {

    /**
     * Creates new XmlSchemaSimpleContent
     */
    public XmlSchemaSimpleContent() {
    }

    /** One of XmlSchemaSimpleContentRestriction or XmlSchemaSimpleContentExtension. */
    XmlSchemaContent content;

    public XmlSchemaContent getContent() {
        return this.content;
    }

    public void setContent(XmlSchemaContent content) {
        this.content = content;
    }

    public String toString(String prefix, int tab) {
        String xml = new String();

        if (!prefix.equals("") && prefix.indexOf(":") == -1) {
            prefix += ":";
        }
        return xml;
    }
}

```

# 1.887 XmlSchema 1.4.3

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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