

+ defincRemoteBytesRead(v: Long): Unit

+ def incLocalBytesRead(v: Long): Unit

+ def incFetchWaitTime(v: Long): Unit

+ defincRecordsRead(v: Long): Unit

+ defincRemoteBytesReadToDisk(v: Long): Unit

+ def computeAllMetrics(): ProcfsMetrics

+ def recordsWritten: Long

+ def incBytesWritten(v: Long): Unit

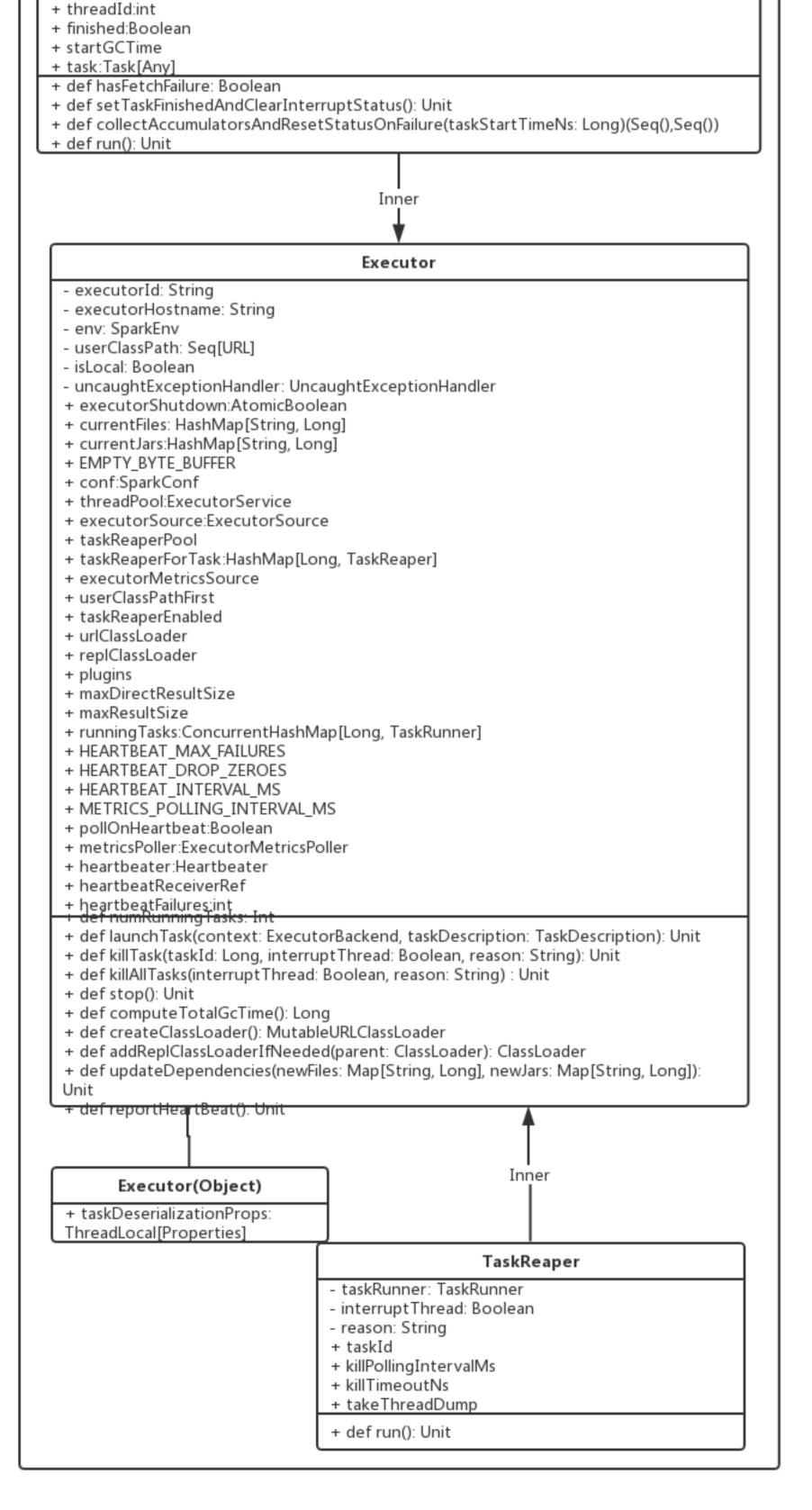
+ def decBytesWritten(v: Long): Unit + def decRecordsWritten(v: Long): Unit

+ def incWriteTime(v: Long): Unit

+ def incRecordsWritten(v: Long): Unit

+ def writeTime: Long

## 任务度量器 TaskMetrics \_executorDeserializeTime - \_executorDeserializeCpuTime - \_executorRunTime - \_executorCpuTime + \_resultSize jvmGCTime \_resultSerializationTime + \_memoryBytesSpilled diskBytesSpilled peakExecutionMemory updatedBlockStatuses + inputMetrics outputMetrics + shuffleReadMetrics + shuffleWriteMetrics + tempShuffleReadMetrics + testAccum + nameToAccums + internalAccums:Seg[AccumulatorV2[ , ] + externalAccums:ArrayBuffer[AccumulatorV2[\_, \_]] + def executorDeserializeTime: Long + def executorDeserializeCpuTime: Long + def executorRunTime: Long + def executorCpuTime: Long + def resultSize: Long + def jvmGCTime: Long + def resultSerializationTime: Long + def diskBytesSpilled: Long + def peakExecutionMemory: Long + def updatedBlockStatuses: Seq[(BlockId, BlockStatus)] + def setExecutorDeserializeTime(v: Long): Unit + def setExecutorDeserializeCpuTime(v: Long): Unit + def setExecutorRunTime(v: Long): Unit + def setExecutorCpuTime(v: Long): Unit + def setResultSize(v: Long): Unit + def setJvmGCTime(v: Long): Unit + def setResultSerializationTime(v: Long): Unit + def setPeakExecutionMemory(v: Long): Unit + def incMemoryBytesSpilled(v: Long): Unit + def incDiskBytesSpilled(v: Long): Unit + def incPeakExecutionMemory(v: Long): Unit + defincUpdatedBlockStatuses(v: (BlockId, BlockStatus)): Unit + def setUpdatedBlockStatuses(v: java.util.List[(BlockId, BlockStatus)]): Unit + def setUpdatedBlockStatuses(v: Seq[(BlockId, BlockStatus)]): Unit + def register(sc: SparkContext): Unit + def registerAccumulator(a: AccumulatorV2[\_, \_]): Unit + def accumulators(): Seq[AccumulatorV2[ , ]] + def nonZeroInternalAccums(): Seq[AccumulatorV2[\_, \_]] + def createTempShuffleReadMetrics(): TempShuffleReadMetrics + def mergeShuffleReadMetrics(): Unit TaskMetrics + def empty: TaskMetrics + def registered: TaskMetrics + def fromAccumulators(accums: Seq[AccumulatorV2[\_, \_]]): TaskMetrics + def fromAccumulatorInfos(infos: Seq[AccumulableInfo]): TaskMetrics



执行器

TaskRunner

execBackend: ExecutorBackend

 taskDescription: TaskDescription + taskId:taskDescription.taskId

+ reasonIfKilled:Option[String]

+ threadName:String

+ taskName:String