

# Errata

## Chapter 1 - page 23

One of the solutions is to create a class that computes the counters and the statistics on demand using, once again, the lazy values:

```
class Stats[T <% Double](private values: DVector[T])
  class _Stats(
    var minValue: Double,
    var maxValue: Double,
    var sum: Double,
    var sumSqr: Double)
  val stats = {
    val _stats = new _Stats(Double.MaxValue, Double.MinValue, 0.0, 0.0)
    values.foreach(x => {
      if(x < _stats.minValue) _stats.minValue = x
      if(x > _stats.maxValue) _stats.maxValue = x
      _stats.sum += x
      _stats.sumSqr += x*x
    })
  }
  ...
```

The same approach is used to compute the multivariate normal distribution:

```
def gauss: Db1Vector =
  values.map(x => {
    val y = x - mean
    INV_SQRT_2PI*Math.exp(-0.5*y*y /( stdDev* stdDev))/stdDev
  })
```

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The receive message handler processes only two types of messages: Start from the client code and Completed from the workers, as shown in the following code:

```
override def receive = {
  case s: Start => split
  case msg: Completed => {
    if(aggregator.size >= partitioner.numPartitions-1) {
      aggregate
      workers.foreach( context.stop(_) )
    }
    aggregator.append(msg.xt.toArray)
  }
```

```

    }
    case Terminated(sender) => {
      if(agggregator.size >= partitioner.numPartitions-1) {
        context.stop (self)
        context.system.shutdown
      }
    }
  }
}

```

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```

override def receive = {
  case msg: Start => split
  case msg: Completed => {
    if(agggregator.size >= partitioner.numPartitions-1) {
      aggregate
      context.stop(router)
    }
    agggregator.append(msg.xt.toArray)
  }
  case Terminated(sender) => {
    if( agggregator.size >= partitioner.numPartitions-1) {
      context.stop(self)
      context.system.shutdown
    }
  }
}

```