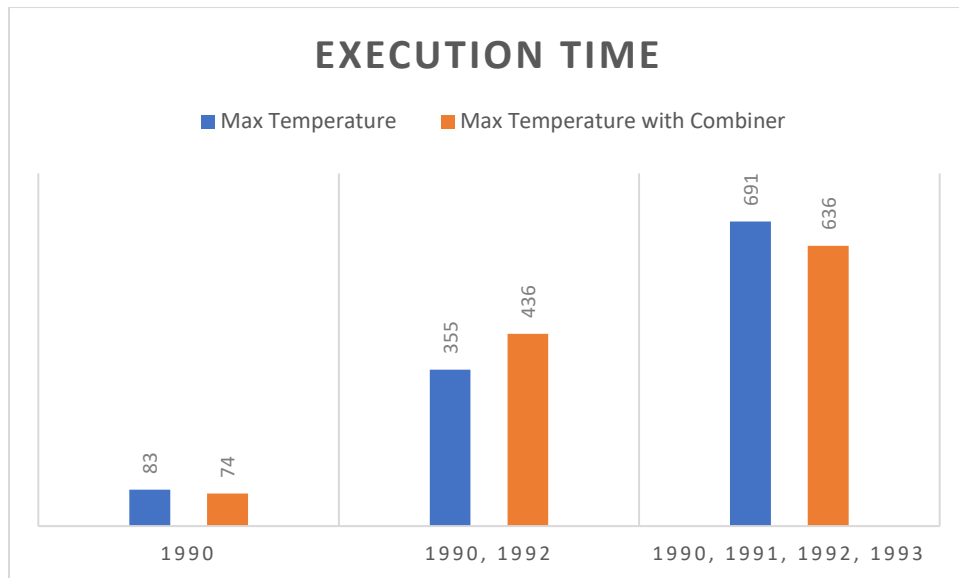


## Week 03 Analysis

The chart of comparison of all the three data sets:



### 1. 1990 data set

Time calculated with only MaxTemperature:

Start Time: 13:46:29 CST

Finish time: 13:47:52 CST

Time taken: 83 seconds

Windows PowerShell

```
vagrant@pleasechangeme:/vagrant_data/maxtemp$ hadoop fs -cat /user/vagrant/output/1990/part-r-00000
1990      607
vagrant@pleasechangeme:/vagrant_data/maxtemp$
```

Time calculated with MaxTemperatureWithCombiner:

Start Time: 13:59:55 CST

Finish Time: 14:01:09 CST

Time taken: 74 seconds

Windows PowerShell

```
vagrant@pleasechangeme:/vagrant_data/maxtemp$ hadoop fs -cat /user/vagrant/output/1990/withcombiner/part-r-00000
1990      607
vagrant@pleasechangeme:/vagrant_data/maxtemp$
```

## 2. 1990 & 1992 data set

Time calculated with only MaxTemperature:

Start Time: 15:13:42 CST

Finish Time: 15:19:37 CST

Time taken: 355 seconds

Windows PowerShell

```
vagrant@pleasechangeme:/vagrant_data/maxtemp$ hadoop fs -cat /user/vagrant/output/90a92/maxtemp/part-r-00000
1990      607
1992      605
vagrant@pleasechangeme:/vagrant_data/maxtemp$
```

Time calculated with MaxTemperatureWithCombiner:

Start Time: 15:02:18 CST

Finish Time: 15:09:34 CST

Time taken: 436 seconds

Windows PowerShell

```
vagrant@pleasechangeme:/vagrant_data/maxtemp$ hadoop fs -cat /user/vagrant/output/90a92/part-r-00000
1990      607
1992      605
vagrant@pleasechangeme:/vagrant_data/maxtemp$
```

### 3. All years' data set

Time calculated with only MaxTemperature:

Start Time: 17:49:51 CST

Finish Time: 18:01:22 CST

Time taken: 691 seconds

 Windows PowerShell

```
vagrant@itmd521:/vagrant_data/maxtemp$ hadoop fs -cat /user/vagrant/output/allyears/maxtemp/part-r-00000
1990      607
1991      607
1992      605
1993      567
vagrant@itmd521:/vagrant_data/maxtemp$
```

Time calculated with MaxTemperatureWithCombiner:

Start Time: 19:59:50 CST

Finish Time: 20:10:26 CST

Time taken: 636 seconds

 Windows PowerShell

```
vagrant@itmd521:/vagrant_data/maxtemp$ hadoop fs -cat /user/vagrant/output/allyears/maxtempwithcomb/part-r-00000
1990      607
1991      607
1992      605
1993      567
vagrant@itmd521:/vagrant_data/maxtemp$
```