**BIG DATA COMPUTING 2018-19 – HOMEWORK 4 – GROUP 13**

1. **Required tests.** Do the tests with the parameters indicated in the following table and, for every test, report the following values: Ti = running time (in seconds) of Round i of MR\_kmedian (i=1,2,3), and Obj = value of the objective function (average distance of points from centers). If you notice anomalies in the values of a test try to repeat the test 2-3 times and take the average values*. Some anomalies are to be expected!*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dataset** | **K** | **L** | **iter** | **num-executors** | **T1** | **T2** | **T3** | **Obj** |
| **HIGGS11M7D** | **10** | **16** | **0** | **16** | **2072** | **10** | **745** | **0,608575341267478** |
| **HIGGS11M7D** | **25** | **16** | **0** | **16** | **3191** | **16** | **735** | **0,491572137758809** |
| **HIGGS11M7D** | **50** | **16** | **0** | **16** | **5407** | **31** | **1125** | **0,422305425723374** |
| **HIGGS11M7D** | **50** | **16** | **10** | **16** | **20959** | **82** | **1083** | **0,361068175556586** |
| **HIGGS22M7D** | **50** | **32** | **10** | **8** | **36025** | **165** | **2868** | **0,360497231613668** |
| **HIGGS22M7D** | **50** | **32** | **10** | **16** | **22885** | **127** | **3326** | **0,359751986118889** |
| **HIGGS22M7D** | **50** | **32** | **10** | **32** | **1247** | **156** | **730** | **0,360405995054** |

1. **Other observations** (at your discretion)