**BIG DATA COMPUTING 2018-19 – HOMEWORK 4 – GROUP 11**

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** | **5.220** | **0.168** | **0.506** | **0.6120639532102168** |
| **HIGGS11M7D** | **25** | **16** | **0** | **16** | **11.094** | **0.386** | **0.704** | **0.49433039417713603** |
| **HIGGS11M7D** | **50** | **16** | **0** | **16** | **16.745** | **0.227** | **1.120** | **0.423203419994435** |
| **HIGGS11M7D** | **50** | **16** | **10** | **16** | **25.553** | **0.275** | **0.972** | **0.364207471603551** |
| **HIGGS22M7D** | **50** | **32** | **10** | **8** | **76.478** | **0.365** | **6.925** | **0.4330964778846234** |
| **HIGGS22M7D** | **50** | **32** | **10** | **16** | **59.198** | **0.422** | **5.036** | **0.43083408676533436** |
| **HIGGS22M7D** | **50** | **32** | **10** | **32** | **37.098** | **0.522** | **1.182** | **0.43099617653731603** |

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