Transaction Classification Configuration

1.Datasets:

We use three different block range data to construct datasets

Datasets	Block range
1	621001-621500
2	621501-622000
3	622001-622500

2. Clusters: K= 2, 4, 6, 8

We provide 4 different classification options for each dataset

3. Information of Clusters

Transactions are classified based on the waiting time (in terms of blocks). The detailed classification settings for each dataset is listed.

3.1 Block range 621001-621500

1) K=2

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.621735	>=22.249	0.621568
CLASS 2	2+	0.378265	[0, 22.249)	0.378431

2) K= 4

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.621735	>=22.249	0.621568
CLASS 2	2	0.131878	[17.593,22.249)	0.132035
CLASS 3	3~7	0.13159	[7.096, 17.593)	0.131562
CLASS 4	8+	0.114797	<7.096	0.114834

3) K= 6

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.621735	>=22.249	0.621568
CLASS 2	2	0.131878	[17.593,22.249)	0.132035
CLASS 3	3~4	0.084519	[13.118,17.593)	0.084513
CLASS 4	5~8	0.055182	[6.002,13.118)	0.054969
CLASS 5	9~28	0.053407	[2.992,6.002)	0.053602
CLASS 6	29+	0.053278	<2.992	0.053312

4) K=8

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.621735	>=22.249	0.621568
CLASS 2	2	0.131878	[17.593,22.249)	0.132035
CLASS 3	3	0.052093	[15.135,15.597)	0.052066
CLASS 4	4~5	0.054988	[10.09,15.15)	0.054915
CLASS 5	6~9	0.039642	[5.058,10.09)	0.039741
CLASS 6	10~18	0.03371	[3.026,5.058)	0.033281
CLASS 7	19~58	0.03363	[1.289,3.026)	0.03407
CLASS 8	59+	0.032324	<1.289	0.032324

3.2 Block range 621501-622000

1) K= 2

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.571673	>=52.633	0.571571
CLASS 2	2+	0.428327	[0,52.633)	0.428428

2) K=4

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.571673	>=52.633	0.571571
CLASS 2	2~3	0.167593	[22.006,52.633)	0.167694
CLASS 3	4~10	0.133651	[4.019,22.006)	0.132527
CLASS 4	11+	0.127084	<4.019	0.128208

3) K= 6

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.571673	>=52.633	0.571571
CLASS 2	2	0.114022	[30.177,52.633)	0.114038
CLASS 3	3~4	0.092319	[15.002,30.177)	0.090611
CLASS 4	5~8	0.075582	[5.024,15.002)	0.077215
CLASS 5	9~23	0.074183	[2.991,5.024)	0.074273
CLASS 6	24+	0.072221	<2.991	0.072291

4) K=8

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.571673	>=52.633	0.571571
CLASS 2	2	0.114022	[30.177,52.633)	0.114038
CLASS 3	3	0.053571	[22.006,30.177)	0.053656
CLASS 4	4	0.064176	[10.423,22.006)	0.064119
CLASS 5	6~8	0.050154	[5.024,10.423)	0.050051
CLASS 6	9~15	0.053192	[3.021,5.024)	0.053277
CLASS 7	16~45	0.046767	[1.305,3.021)	0.046773
CLASS 8	46+	0.046446	<1.305	0.046514

3.3 Block range 622001-622500

1) K= 2

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.606583	>=61.595	0.606458
CLASS 2	2+	0.393417	[0,61.595)	0.393542

2) K= 4

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.606583	>=61.595	0.606458
CLASS 2	2~3	0.148224	[31.052,61.595)	0.148349
CLASS 3	4~13	0.127937	[5.011,31.052)	0.127897
CLASS 4	14+	0.117256	<5.011	0.117295

3) K= 6

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.606583	>=61.595	0.606458
CLASS 2	2	0.100719	[39.668,61.595]	0.100844
CLASS 3	3~4	0.077867	[27.123,39.668)	0.077807
CLASS 4	5~9	0.07208	[9.002,27.123)	0.071999
CLASS 5	10~26	0.073177	[3.015,9.002)	0.072808
CLASS 6	27+	0.069573	<3.015	0.070084

4) K= 8

Cluster	Block Interval	Ratio	Feerate range	Feerate ratio
CLASS 1	1	0.606583	>=61.595	0.606458
CLASS 2	2	0.100719	[39.668,61.595)	0.100844
CLASS 3	3~4	0.077867	[27.123,39.668)	0.077807
CLASS 4	5~7	0.051215	[13.049,27.123)	0.051232
CLASS 5	8~13	0.046361	[5.011,13.049)	0.046364
CLASS 6	14~23	0.039419	[3.028,5.011)	0.038622
CLASS 7	24~50	0.039448	[2.419,3.028)	0.040281
CLASS 8	51+	0.038388	<2.419	0.038392