Boxplot of ARL<sub>0</sub> for Various Models on Streaming Data with z and alpha: z:1.6449 alpha:1, Mean Gap Size of 1, Data Variance of 9 (Outliers in in-control Period) 500 200 CTM (Z:1.6449, a:1, (0.1, 20))
SWM (Z:1.6449, a:1, 25) CTM (Z:1 6449, 3:1, (0.1, 10))
CTM (Z:1 6449, 3:1, 15) CTM (Z:1.6449, 2:1, (0.1, 15))
CTM (Z:1.6449, 2:1, 20) CTM (Z.1.6449, 2.1, (0.15, 10))
CTM (Z.1.6449, 2.1, 30) WM (2:1:6449, a:1,(0.1,20)) CTM (Z:1, 6449, 2:1, (0.15, 15)) CTM (Z:1, 6449, a:1, (0:15, 20)) WM (Z:1,6449,3:1,(0.1,10)) TM (Z:1,6449,3:1,(0.1,15)) WM (Z:7.6449, a:1, (0.1, 15)) TM (Z:1,6449,3:1,(0.1,20)) TM (2:1.6449, a:1, (0.15, 10)) WM (2:1,6449,3:1,(0.15,10)) WM (Z:1,6449, a:1,(0.15, 15)) TM (2:1.6449, a:1, (0.15, 20)) WM (2:1.6449, 3:1, (0.15, 20)) TM (2.1.6449, 3.1, (0.2, 10)) WM (Z:1, 6449, 2:1, (0.2, 10)) CTM (Z:1 6449, 3:1, (0.2, 10)) TM (Z.1, 6449, 3:1, (0.2, 15)) WM (Z:1.6449, a:1, (0.2, 15)) CTM (Z:1 6449, 2:1, (0.2, 15))

Model (Parameters)

 $ARL_0$