Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.96 alpha:1.5, Mean Gap Size of 5, Data Variance of 9 (Outliers in burn-in Period) CTM (Z:1.96, a:1.5, (0.1, 20))
SWM (Z:1.96, a:1.5, 25) CTM (z:1.96, a:1.5, (0.15, 10)) (z:1.96, a:1.5, 30) CTM (Z:1.96, a:1.5, (0.1, 10)) (Z:1.96, a:1.5, 15) CTM (Z:1.96, a:1.5, (0.1, 15))
SWM (Z:1.96, a:1.5, 20) WM (Z:1.96, a:1.5, (0.15, 10)) WM (Z:1.96,8:1.5,(0.15,15)) CTM (Z:1, 96, 8:1, 5, (0, 15, 15)) WM (z:1.96,a:1.5,(0.15,20)) CTM (Z:1.96, a:1.5, (0.15, 20)) CTM (Z:1.96, 3:1.5, (0.2, 10)) CTM (2:1.96, 2:1.5, (0:2, 15)) WM (Z:1,96,8:1,5,(0.1,10)) TM (Z:1.96, a:1.5, (0.1, 15)) WM (Z:1.96, 3:1, 5, (0:1, 15)) TM (Z:1.96, a:1.5, (0.1, 20)) WM (Z:1.96, a:1.5, (0.1, 20)) TM (Z:1.96, 8:1.5, (0.15, 10)) TM (2:1.96, 2:1.5, (0.15, 20)) TM (Z.1.96, a.1.5, (0.2, 10)) WM (Z:1.96,2:1.5,(0.2, 10)) TM (2.1.96, a.1.5, (0.2, 15)) WM (Z:1,96,8:1,5,10.2,15)) TM (Z:1.96,a:1.5,10.2,201) TM(Z:1,96,8:1,5,10,15,15))

Model (Parameters)

ARL<sub>1</sub>