List of Figures

Standard deviation thresholds of 400 for some activity and 1,000 for high activity.
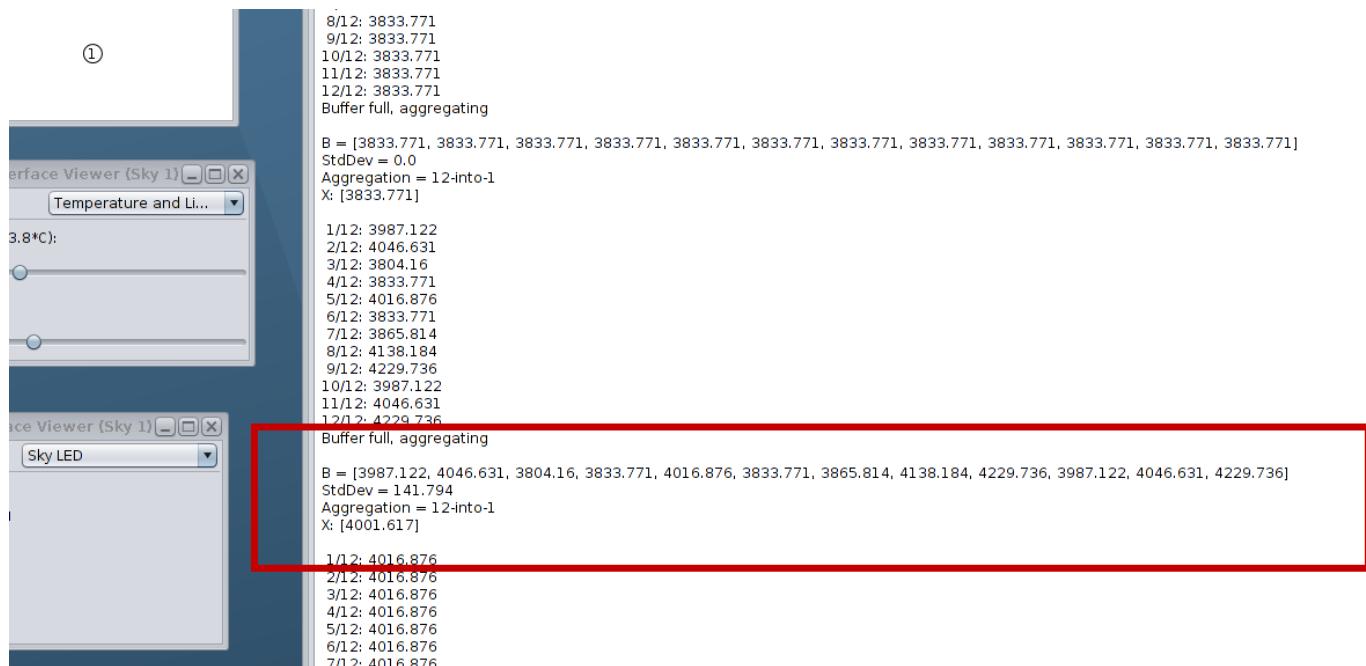
Figure 1: Demonstration of 12-into-1 aggregation for little activity
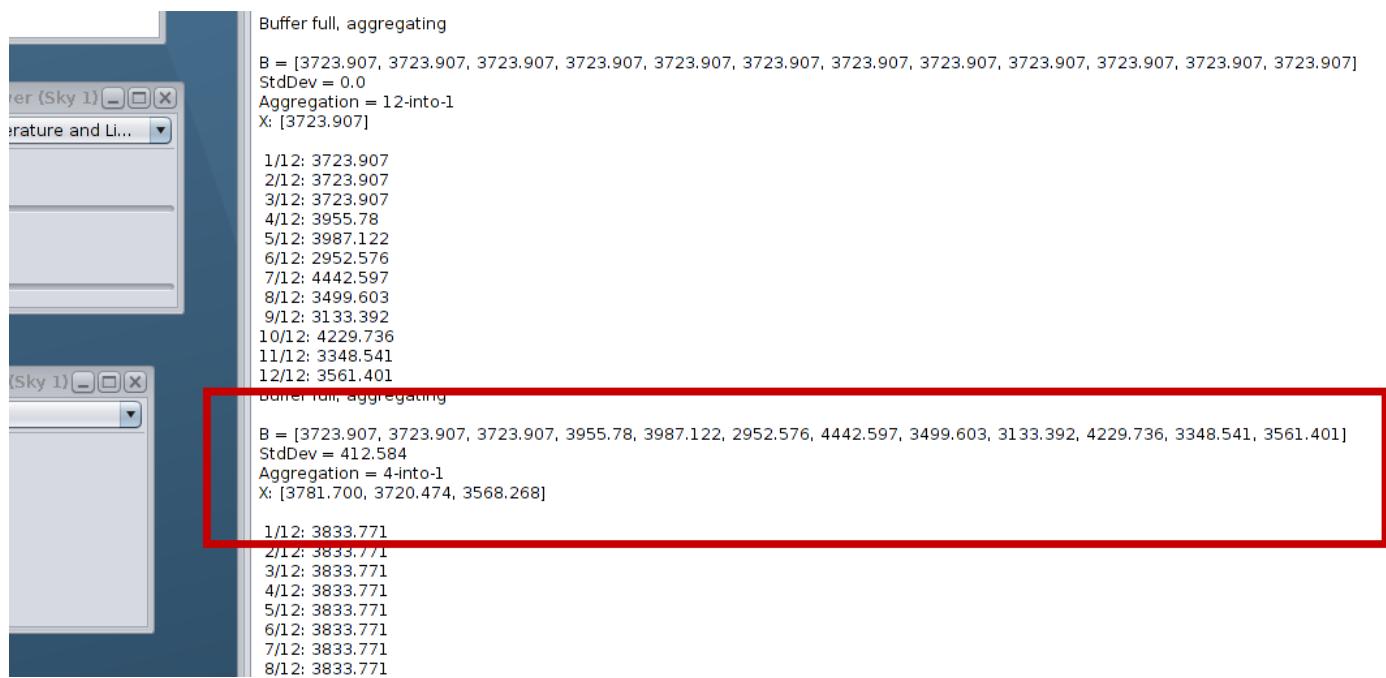
Buffer full, aggregating

B = [3723.907, 3723.907, 3723.907, 3723.907, 3723.907, 3723.907, 3723.907, 3723.907, 3723.907, 3723.907, 3723.907, 3723.907]
StdDev = 0.0
Aggregation = 12-into-1
X: [3723.907]

1/12: 3723.907
2/12: 3723.907
3/12: 3723.907
4/12: 3955.78
5/12: 3987.122
6/12: 2952.576
7/12: 4442.597
8/12: 3499.603
9/12: 3133.392
10/12: 4229.736
11/12: 3348.541
12/12: 3561.401

Buffer full, aggregating

B = [3723.907, 3723.907, 3723.907, 3955.78, 3987.122, 2952.576, 4442.597, 3499.603, 3133.392, 4229.736, 3348.541, 3561.401]
StdDev = 412.584
Aggregation = 4-into-1
X: [3781.700, 3720.474, 3568.268]

1/12: 3833.771
2/12: 3833.771
3/12: 3833.771
4/12: 3833.771
5/12: 3833.771
6/12: 3833.771
7/12: 3833.771
8/12: 3833.771

Figure 2: Demonstration of 4-into-1 aggregation for moderate activity

B = [4016.876, 4016.876, 4016.876, 4016.876, 4016.876, 4016.876, 4016.876, 4016.876, 4016.876, 4016.876, 4016.876, 4016.876]
StdDev = 0.0
Aggregation = 12-into-1
X: [4016.876]

1/12: 4016.876
2/12: 4016.876
3/12: 8308.410
4/12: 730.133
5/12: 5142.975
6/12: 8946.991
7/12: 3650.666
8/12: 151.62
9/12: 5781.555
10/12: 9372.711
11/12: 4108.429
12/12: 1277.161
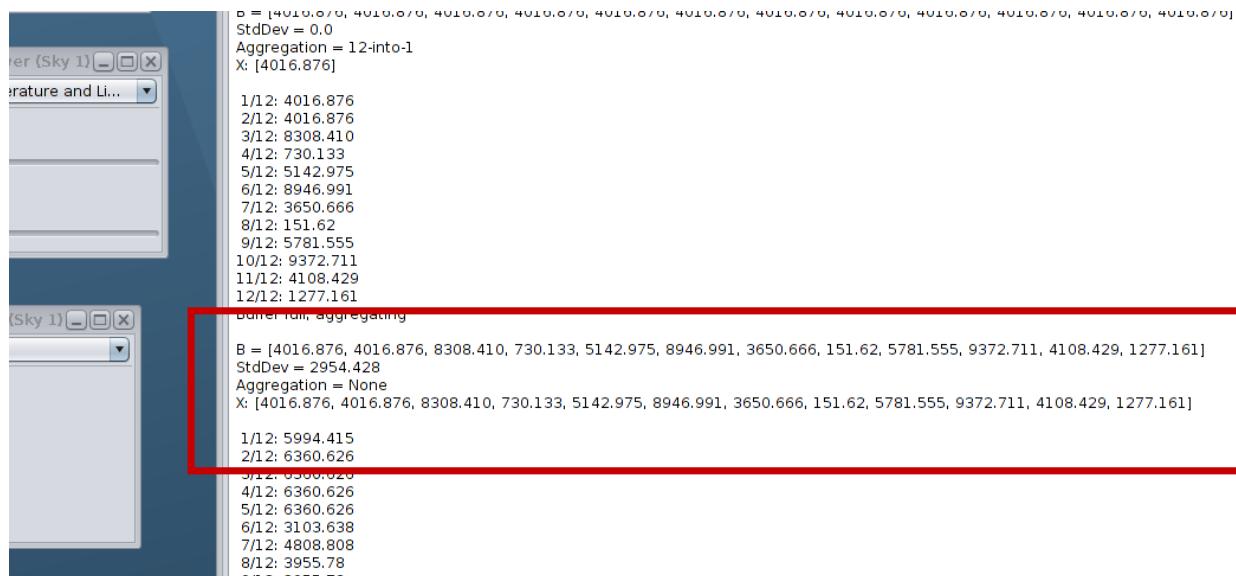
Buffer full, aggregating

B = [4016.876, 4016.876, 8308.410, 730.133, 5142.975, 8946.991, 3650.666, 151.62, 5781.555, 9372.711, 4108.429, 1277.161]
StdDev = 2954.428
Aggregation = None
X: [4016.876, 4016.876, 8308.410, 730.133, 5142.975, 8946.991, 3650.666, 151.62, 5781.555, 9372.711, 4108.429, 1277.161]

1/12: 5994.415
2/12: 6360.626
3/12: 6360.626
4/12: 6360.626
5/12: 6360.626
6/12: 3103.638
7/12: 4808.808
8/12: 3955.78
9/12: 3955.78

Figure 3: Demonstration of no aggregation for high activity