****

*Figure a.* A labeled snapshot of the labeled Control Tower interface.

**

*Figure b.* A labeled snapshot of the labeled SynWin interface.

**

*Figure b.* A labeled snapshot of the Foster Task interface.

| Table 2. Descriptive statistics of measures. |
| --- |
| **Variable**  | **Mean**  | **SD**  | **min**  | **max**  | **Skewness**  | **Kurtosis**  |
| Antisaccade  | 0.78  | 0.15  | 0.36  | 0.99  | -0.80  | -0.16  |
| ASVAB Total  | 103.06  | 21.79  | 44.00  | 143.00  | -0.44  | -0.26  |
| Control Tower Distract Score  | 24.36  | 4.13  | 6.00  | 29.00  | -1.64  | 3.04  |
| Control Tower Primary Score | 96.25  | 36.55  | 17.00  | 186.00  | -0.41  | 0.02  |
| Digit String Comparison  | 30.16  | 5.32  | 11.00  | 41.00  | -0.58  | 0.55  |
| Digit Symbol Substitution  | 57.76  | 12.49  | 22.00  | 90.00  | 0.31  | 0.57  |
| Flanker Effect  | 82.95  | 44.51  | -13.86  | 238.36  | 1.25  | 2.35  |
| Foster Task  | 14994.87  | 10020.15  | 0.00  | 47915.00  | 0.81  | 0.52  |
| Letter Sets  | 16.60  | 4.53  | 5.00  | 28.00  | -0.24  | -0.28  |
| Letter String Comparison  | 20.85  | 3.86  | 11.00  | 37.00  | 0.35  | 1.21  |
| Number Series  | 9.30  | 3.32  | 2.00  | 15.00  | -0.33  | -0.78  |
| RAPM  | 9.61  | 3.23  | 2.00  | 18.00  | -0.15  | -0.40  |
| SACT  | 0.70  | 0.19  | 0.19  | 0.97  | -0.77  | 0.12  |
| Selective Visual Arrays  | 1.71  | 1.13  | 0.00  | 4.45  | 0.17  | -0.80  |
| Stroop Effect  | 132.52  | 83.20  | -52.65  | 431.09  | 0.80  | 1.16  |
| SynWin  | 395.75  | 211.16  | -567.33  | 792.00  | -1.27  | 2.49  |





*Figure 4.* Processing speed (PS) was included as an additional latent variable as a measure of discriminant validity. Although processing speed also significantly predicted multitasking, the attention control path to multitasking remained strong and significant. χ2(199) = 357.557, p < .001, CFI = .904, RMSEA = .068.