Single Instrument Monte Carlo Output

|  |  |  |  |
| --- | --- | --- | --- |
| MSE: N=1000 | Strongest | Weaker | Weakest |
| OLS | 0.044243 |  |  |
| 2SLS | 0.000487 | 0.05438 | 676.6058 |
| LIML | 0.000487 | 0.05438 | 676.6058 |
| FULL | 0.000487 | 0.049881 | 2.556508 |

Lost the output for the above MSE but above was for N=1000

|  |  |  |  |
| --- | --- | --- | --- |
|  | Strongest Instrument | Weaker Instument | Weakest Instrument |
| OLS Mean | 1.214 |  |  |
| 2SLS Mean | 1.000 | 0.997 | 0.787 |
| OLS SD | 0.006 |  |  |
| 2SLS SD | 0.007 | 0.069 | 4.918 |
| LIML mean | 1.000 | 0.997 | 0.787 |
| FULL mean | 1.000 | 1.000 | 1.149 |
| LIML sd | 0.007 | 0.069 | 4.918 |
| FULL sd | 0.007 | 0.069 | 0.474 |
| LIML median | 1.000 | 1.001 | 1.012 |
| FULL median | 1.000 | 1.004 | 1.226 |
| MSE for n=10000 |  |  |  |
|  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N= 10000 | MSE | | weaker | Weakest | |  | |  | |
| OLS | 0.0460 | |  |  | |  | |  | |
| 2SLS | 0.0000 | | 0.0048 | 24.2312 | |  | |  | |
| LIML | 0.0000 | | 0.0048 | 24.1859 | |  | |  | |
| FULL | 0.0000 | | 0.0048 | 0.2466 | |  | |  | |
|  |  | |  |  | |  | |  | |
|  |  | |  |  | |  | |  | |
|  | | N=1000 | | | | | | | N=10,000 | | | |
| Mean Squared Error | | Strong Instrument | | | Weak Instrument | | Weakest Instrument | | Strong Instrument | | Weak Instrument | Weaker Instrument |
| OLS | | 0.0442 | | | N/A | | N/A | | 0.0460 | | N/A | N/A |
| 2SLS | | 0.0005 | | | 0.0544 | | 676.6058 | | 0.0000 | | 0.0048 | 24.2312 |
| LIML | | 0.0005 | | | 0.0544 | | 676.6058 | | 0.0000 | | 0.0048 | 24.1859 |
| FULL | | 0.0005 | | | 0.0499 | | 2.5565 | | 0.0000 | | 0.0048 | 0.2466 |