Speed Tests

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|  | Method 1 (seconds) | Method 2 (seconds) |
| Solve for SS with bad init guess | 25.8 | 33.3 |
| Loop calibration (10 iterations) | 24.3 | 0 |
| Minimizer (4 iterations) | 1511.7 | 340.3 |
| Solve for SS with good guesses, except replacement rates are new | 7.7 | 9.4 |
| Total Time | 1568.9 | 421.7 |

Robustness

* Loop calibration
  + Bigger loop steps
    - Can do any loop step up to 10,000
  + Get rid of loop calibration altogether – can the minimizer now push it where it needs to go?
    - Got rid of loop, and can just start out at huge values
* Test large sigma values
  + Method 2 can easily do sigma=3.5 and 4.0
  + Method 1 can’t go above 3.2
* Tax experiments
  + SS method 1 must have weird scaling values in order to get the change in taxes to work with the initial values
  + SS method 2: doesn’t need scaling factor, gets the new SS distribution first try
* Minimizer
  + **Run the full minimizer without any changes – does it do better?**
  + **Start big and see how it does**