Statistics/Data analysis

```
*================================================================================
        * Read parameters from excel and assign them to global macros
*================================================================================
**# 1. Uprating
import excel using "$xls_tool", sheet(uprating)  first clear
        destring _all, replace
        ds
        foreach var in `r(varlist)' {   // age uprating = 7 years is added in the xl
> s_tool since (PY-SY) = 7 years
        global `var'_uprating = `var'[1]
        }
/*******************************************************************************/

**# 2. PIT and Pension rates
import excel using "$xls_tool", sheet(PIT_SIC)  first clear //PIT
        drop if missing(PIT_cutoff) | PIT_cutoff == 0
        global PIT_brackets = _N


        /* Save rates/cutoffs in a global macro to automoate dirtax.ado options, as
> in rates(${PIT_rate_lists}) tholds(${PIT_cutoff_lists}) */
        global PIT_cutoff_lists
>
        global PIT_rate_lists
>

        forvalues i = 1 / $PIT_brackets {
                global PIT_cutoff_`i' = PIT_cutoff[`i']*12              // Annualizi
> ng PIT cutoff
                global PIT_rate_`i' = PIT_rate[`i']*100  // Multiply by 100 to use i
> t directly in the dirtax.ado command (eg, 0.15 becomes 15)

                global PIT_cutoff_lists  ${PIT_cutoff_lists} ${PIT_cutoff_`i'}
                global PIT_rate_lists  ${PIT_rate_lists} ${PIT_rate_`i'}
>
        }

        /* Checking if the number of PIT brackets is the same as the number of cutof
> f points and rates */
                local count_PIT_cutoff_lists : word count ${PIT_cutoff_lists}
>
                assert `count_PIT_cutoff_lists' ==  ${PIT_brackets}
>

                local count_PIT_rate_lists : word count ${PIT_rate_lists}
>
                assert `count_PIT_rate_lists' ==  ${PIT_brackets}

        foreach var in PIT_deduction SIC_rate {
                global `var' = `var'[1]
        }
                global PIT_deduction = ${PIT_deduction}         // PIT deduction is
> already annualized

/*******************************************************************************/

**# 3. Transfers
import excel using "$xls_tool", sheet(transfers)  first clear //PIT
        ds
        foreach var in `r(varlist)' {
                global `var' = `var'[1]
        }
```

```
        global child_benefit = ${child_benefit}*12
>               // Annualizing benefits
        global unempl_coverage_increase = ${unempl_coverage_increase}*12        // A
> nnualizing enemp't coverage
        global GMI_threshold = ${GMI_threshold}*12
>               // Annualizing GMI
/*******************************************************************************/

**# 4. inkind
import excel using "$xls_tool", sheet(inkind)  first clear
        destring _all, replace
        ds
        foreach var in `r(varlist)' {
                global `var' = `var'[1]
        }
        /* These inkind vars are typically reported annualy, so no need to annualize
>  them */

        clear                   // deleting inkind data in Stata
```