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/******************************
                 Semana 7: Cluster robust inference
                      Universidad de San Andrés
                          Economía Aplicada
*******************************
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Este archivo sique la siguiente estructura:
0) Configurar el entorno
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* 0) Configurar el entorno
*-----*
global main "C:/Users/Milton/Documents/UDESA/Economía Aplicada/Problem-Sets/PS 7"
global input "$main/input"
global output "$main/output"
cd "$main"
use "$input/base01.dta", clear
******************
* Variable dependiente = zakaibag
* Variable de interés = treated
* Variables de control = semarab semrel y efectos fijos por grupo (si se puede)
* Separo por grupos
gen group = 1
replace group = 2 if pair == 2 | pair == 4
replace group = 3 if pair == 5 | pair == 8
replace group = 4 if pair == 7
replace group = 5 if pair == 9 | pair == 10 replace group = 6 if pair == 11
replace group = 7 if pair == 12 | pair == 13
replace group = 8 if pair == 14 | pair == 15
replace group = 9 if pair == 16 | pair == 17
replace group = 10 if pair == 18 | pair == 20
replace group = 11 if pair == 19
* REGRESIONES
eststo clear
* Robust
eststo white: xtreq zakaibaq treated semarab semrel, fe i(group) vce(robust)
eststo clust: xtreg zakaibag treated semarab semrel, fe i(group) cluster(group)
* Wild-bootstrap
xtreg zakaibag treated semarab semrel, fe i(group) cluster(group)
eststo boo: boottest treated, boottype(wild) cluster(group) robust seed(69) nograph
mat p2=(r(p))
mat colnames p2= treated
estadd matrix p2
*ARTs
do "$main/programs/art.ado"
art zakaibag treated semarab semrel, cluster(group) m(regress) report(treated)
mat p3=(r(pvalue joint))
mat colnames p3= treated
eststo ar: xtreg zakaibag treated semarab semrel, fe i(group) cluster(group)
estadd matrix p3
```

esttab white clust boo ar using "\$output/Regresiones.tex", replace label keep(treated,
> relax) ///
cells(b(fmt(3) pvalue(p2) star) se(par fmt(2)) p(par({ })) p2(par([])) p3(par(< >)))
> ///
addnotes("standard errors in parenthesis, clustered p-value in braces, Wild-bootstrap
> based p-values in brackets, ART-based p-values in arrows")

* ssc install boottest

*Exportar a pdf

translate "\$main/programs/PS 7.do" "\$output/PS 7 do-file.pdf", translator(txt2pdf) rep
> lace