SE-Standard Edition

Statistics and Data Science

Copyright 1985-2021 StataCorp LLC

StataCorp

4905 Lakeway Drive

College Station, Texas 77845 USA

800-STATA-PC https://www.stata.com stata@stata.com

979-696-4600

Stata license: 33-user network perpetual

Serial number: 401706319498 Licensed to: Mason

CHASS IT

#### Notes:

1. Unicode is supported; see <a href="help unicode advice">help unicode advice</a>.

2. Maximum number of variables is set to 5,000; see <a href="help-set\_maxvar">help-set\_maxvar</a>.

1 . use "B:\LAP\_inst\_reg\_data\_04.dta"

#### 2 . xtset

panel variable not set; use xtset varname ... r(459);

3 . xtset user\_

Panel variable: user\_ (unbalanced)

4 . xtreg P\_ave FC blockdiff1 DOS DOS\_t ppdays gt90 pmax tave tmin totalpp cdd rhave, fe vce(robust)

note: blockdiff1 omitted because of collinearity.

note: rhave omitted because of collinearity.

Fixed-effects (within) regression Number of obs 202,507 Group variable: user\_ Number of groups = 18,444 R-squared: Obs per group: Within = **0.1932** min = 1 Between = 0.0032avg = 11.0 Overall = **0.1446** max = 11 F(10,18443) 2553.33  $corr(u_i, Xb) = 0.0003$ Prob > F 0.0000

			-			<del>-</del>
		Robust				
P_ave	Coefficient	std. err.	t	P> t	[95% conf.	interval]
FC	.1146393	.0058556	19.58	0.000	.1031619	.1261168
blockdiff1	0	(omitted)				
DOS	.0309626	.0041518	7.46	0.000	.0228248	.0391005
DOS_t	.0863199	.0031821	27.13	0.000	.0800827	.092557
ppdays	.008164	.000783	10.43	0.000	.0066293	.0096987
gt90	0256472	.0009232	-27.78	0.000	0274568	0238376
pmax	.0622514	.0072018	8.64	0.000	.0481352	.0763676
tave	.0573018	.0016696	34.32	0.000	.0540291	.0605744
tmin	0704156	.0017975	-39.17	0.000	0739389	0668923
totalpp	.0012168	.0008474	1.44	0.151	0004441	.0028778
cdd	.001076	.0000494	21.79	0.000	.0009792	.0011728
rhave	0	(omitted)				
_cons	-12.51567	.3840684	-32.59	0.000	-13.26848	-11.76286
sigma_u	.26018024					
sigma_e	.38461141					

rho | .31394979 (fraction of variance due to u\_i)

5 . predict Phat
 (option xb assumed; fitted values)

- 6 . xtset P\_ave FC DOS DOS\_t ppdays gt90 pmax tave tmin totalpp cdd, fe vce(robust) too many variables specified r(103);
- 7 . xtreg P\_ave FC DOS DOS\_t ppdays gt90 pmax tave tmin totalpp cdd, fe vce(robust)

Fixed-effects (within) regression Number of obs Number of groups = Group variable: user\_ 18,444 R-squared: Obs per group: Within = **0.1932** min = 1 Between = **0.0032** avg = 11.0 Overall = **0.1446** max = 11 F(10,18443) 2553.33 corr(u i, Xb) = 0.0003Prob > F 0.0000

(Std. err. adjusted for 18,444 clusters in user\_)

P_ave	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
FC	.1146393	.0058556	19.58	0.000	.1031619	.1261168
DOS	.0309626	.0041518	7.46	0.000	.0228248	.0391005
DOS_t	.0863199	.0031821	27.13	0.000	.0800827	.092557
ppdays	.008164	.000783	10.43	0.000	.0066293	.0096987
gt90	0256472	.0009232	-27.78	0.000	0274568	0238376
pmax	.0622514	.0072018	8.64	0.000	.0481352	.0763676
tave	.0573018	.0016696	34.32	0.000	.0540291	.0605744
tmin	0704156	.0017975	-39.17	0.000	0739389	0668923
totalpp	.0012168	.0008474	1.44	0.151	0004441	.0028778
cdd	.001076	.0000494	21.79	0.000	.0009792	.0011728
_cons	-12.51567	.3840684	-32.59	0.000	-13.26848	-11.76286
sigma u	.26018024					
sigma e	.38461141					
rho	.31394979	(fraction	of varia	nce due t	co u_i)	

- 8 . predict Phat2
   (option xb assumed; fitted values)
- 9 . xtreg Q Phat2##i.cluster, fe vce(robust)
  Phat2: factor variables may not contain noninteger values
  r(452);
- 10 . xtreg c.Phat2##i.cluster, fe vce(robust)

note: 1.cluster omitted because of collinearity.
note: 2.cluster omitted because of collinearity.
note: 3.cluster omitted because of collinearity.
note: 4.cluster omitted because of collinearity.

Fixed-effects (within) regression Number of obs 202,507 Group variable: user\_ Number of groups = 18,444 R-squared: Obs per group: Within = 0.8985 min = 1 Between = **0.0000** avg = 11.0 Overall = **0.0268** max = 11

 $corr(u_i, Xb) = -0.9850$ 

F(0,18443) Prob > F

(Std. err. adjusted for 18,444 clusters in user\_)

Phat2	Coefficient	Robust std. err.	t	P> t	[95%	conf.	interval]
cluster							
1	0	(omitted)					
2	0	(omitted)					
3	0	(omitted)					
4	0	(omitted)					
cluster#c.Phat2							
0	0	(omitted)					
1	1	•	•	•			
2	1	•	•	•			
3	1	•	•	•			
4	1	•	•	•		•	•
_cons	3260851	•	•			•	•
sigma_u sigma_e rho	.97047831 .0599759 .99619525	(fraction o	of varianc	e due to	o u_i)		

## 11 . xtreg Q c.Phat2##i.cluster, fe vce(tobust) vcetype tobust not allowed r(198);

12 . xtreg Q c.Phat2##i.cluster, fe vce(robust)

note: 1.cluster omitted because of collinearity.

note: 2.cluster omitted because of collinearity.

note: 3.cluster omitted because of collinearity. note: 4.cluster omitted because of collinearity.

Fixed-effects (within) regression 202,507 Number of obs Number of groups = 18,444 Group variable: user\_

R-squared: Obs per group:

min = Within = **0.0622** 1 Between = **0.0366** avg = 11.0 Overall = **0.0017** max = 11

F(5,18443) 2180.91  $corr(u_i, Xb) = -0.2922$ 0.0000 Prob > F

Q	Coefficient	Robust std. err.	t	P> t	[95% conf	. interval]
Phat2	5199396	.018085	-28.75	0.000	5553879	4844913
cluster						
1	0	(omitted)				
2	0	(omitted)				
3	0	(omitted)				
4	0	(omitted)				
cluster#c.Phat2						
1	0795693	.0222306	-3.58	0.000	1231434	0359953
2	.049218	.0235613	2.09	0.037	.0030358	.0954003
3	045701	.0205275	-2.23	0.026	0859367	0054652
4	0422131	.02039	-2.07	0.038	0821793	0022469

_cons	5.562271	.0173032	321.46	0.000	5.528355	5.596187
sigma_u sigma_e rho	.66412648 .4069016 .72706902	(fraction	of varia	nce due t	o u_i)	

13 . xtreg Q c.Phat2##i.cluster DOS\_t ppdays gt90 pmax tave tmin totalpp cdd, fe vce(robust)

note: 1.cluster omitted because of collinearity.
note: 2.cluster omitted because of collinearity.
note: 3.cluster omitted because of collinearity.
note: 4.cluster omitted because of collinearity.

Fixed-effects (within) regression Number of obs = 202,507 Group variable: user\_ Number of groups = 18,444

R-squared: Obs per group:

Within = 0.1738 min = 1
Between = 0.0362 avg = 11.0
Overall = 0.0073 max = 11

F(13,18443) = 1576.08 $corr(u_i, Xb) = -0.2230$  Prob > F = 0.0000

Q	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
Phat2	.1832961	.0368681	4.97	0.000	.1110312	. 255561
cluster						
1	0	(omitted)				
2	0	(omitted)				
3	0	(omitted)				
4	0	(omitted)				
cluster#c.Phat2						
1	0795677	.0222321	-3.58	0.000	1231446	0359908
2	.0487767	.0235548	2.07	0.038	.0026072	.0949462
3	0455477	.02053	-2.22	0.027	0857884	005307
4	0421561	.0203914	-2.07	0.039	0821252	0021871
DOS_t	.0136029	.0030145	4.51	0.000	.0076942	.0195116
ppdays	0134122	.0003399	-39.46	0.000	0140785	012746
gt90	.0141412	.0008325	16.99	0.000	.0125093	.015773
pmax	.0444066	.00419	10.60	0.000	.0361938	.0526195
tave	02536	.0021684	-11.70	0.000	0296102	0211098
tmin	.050078	.0026194	19.12	0.000	.0449437	.0552122
totalpp	005582	.0006548	-8.52	0.000	0068654	0042985
cdd	0006707	.0000387	-17.35	0.000	0007465	000595
_cons	6.050078	.2765312	21.88	0.000	5.508051	6.592105
sigma_u	.66383029					
sigma_e	.38193734					
rho	.75129668	(fraction	of varia	nce due t	o u_i)	

## 14 . xtset user\_ period\_

Panel variable: user\_ (unbalanced)

Time variable: period\_, 2 to 12, but with gaps

Delta: 1 unit

15 . xtreg P\_ave FC#i.cluster DOS#i.cluster, fe vce(robust)
 FC: factor variables may not contain noninteger values
 r(452);

16 . xtreg P\_ave c.FC##i.cluster c.DOS##i.cluster, fe vce(robust)

note: 1.cluster omitted because of collinearity.
note: 2.cluster omitted because of collinearity.
note: 3.cluster omitted because of collinearity.
note: 4.cluster omitted because of collinearity.

Fixed-effects (within) regression

Group variable: user\_

Number of obs = 202,507

Number of groups = 18,444

R-squared: Obs per group:

 Within = 0.0920
 min = 1

 Between = 0.0009
 avg = 11.0

 Overall = 0.0032
 max = 11

F(10,18443) = 1706.49 $corr(u_i, Xb) = -0.8458$  Prob > F = 0.0000

P_ave	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
FC	.0513026	.0075702	6.78	0.000	.0364644	.0661409
cluster						
1	0	(omitted)				
2	0	(omitted)				
3	0	(omitted)				
4	0	(omitted)				
cluster#c.FC						
1	.0289835	.0099151	2.92	0.003	.0095491	.048418
2	.0059497	.0093955	0.63	0.527	0124663	.0243657
3	0004838	.0088985	-0.05	0.957	0179258	.0169581
4	.003583	.0084118	0.43	0.670	0129048	.0200708
DOS	.1597115	.0041297	38.67	0.000	.151617	.1678061
cluster#c.DOS						
1	0152061	.0050837	-2.99	0.003	0251706	0052416
2	0017703	.0054293	-0.33	0.744	0124123	.0088716
3	0170189	.0046879	-3.63	0.000	0262077	0078301
4	0018037	.0047251	-0.38	0.703	0110654	.0074581
_cons	-13.47332	.0813095	-165.70	0.000	-13.63269	-13.31394
sigma_u sigma_e rho	.51009172 .40803059 .60980599	(fraction	of varia	nce due 1	to u_i)	

#### 17 . predict Phat3

(option xb assumed; fitted values)

18 . xtreg P\_ave c.FC##i.cluster c.DOS##i.cluster c.DOS\_t##i.cluster c.ppdays##i.cluster c.gt90##i.cluster c.pmax##i.cluster c.totalpp##i.cluster c.cdd##i.cluster, fe vce(robust)

note: 1.cluster omitted because of collinearity.
note: 2.cluster omitted because of collinearity.
note: 3.cluster omitted because of collinearity.
note: 4.cluster omitted because of collinearity.

Fixed-effects (within) regression

Group variable: user\_

Number of obs = 202,507

Number of groups = 18,444

R-squared: Obs per group:

 Within = 0.1955
 min = 1

 Between = 0.0052
 avg = 11.0

 Overall = 0.0000
 max = 11

F(50,18443) = 530.42 $corr(u_i, Xb) = -0.9811$  Prob > F = 0.0000

	ı	(Sta. en	. aujusti	-u 101 <b>10</b>	,444 Clusters	s in user_)
		Robust				
P_ave	Coefficient	std. err.	t	P> t	[95% conf.	interval]
FC	.0770007	.0198414	3.88	0.000	.0381097	.1158916
cluster						
1	0	(omitted)				
2	0	(omitted)				
3	0	(omitted)				
4	0	(omitted)				
cluster#c.FC						
1	.1187568	.0240171	4.94	0.000	.071681	.1658326
2	0443897	.0251841	-1.76	0.078	093753	.0049736
3	.0556791	.0226466	2.46	0.014	.0112897	.1000686
4	.0061613	.0224182	0.27	0.783	0377806	.0501031
DOS	.0426491	.0152694	2.79	0.005	.0127197	.0725785
-1+#- DOC						
cluster#c.DOS	0413113	0102025	2 20	0.024	0771407	0054730
1 2		.0182835	-2.26	0.024 0.040	0771487	0054739
3	.0392048 022741	.0191226 .0169257	2.05 -1.34	0.040 0.179	.0017228 055917	.0766868 .010435
3 4	0044092	.0169257	-0.26	0.793	0373414	
4	0044092	.0108013	-0.26	0.793	03/3414	.028523
DOS_t	.0893877	.0120006	7.45	0.000	.0658653	.11291
cluster#c.DOS_t						
1	0287745	.013922	-2.07	0.039	0560629	0014862
2	.0363853	.014841	2.45	0.014	.0072955	.0654751
3	0161866	.0133357	-1.21	0.225	0423257	.0099526
4	.0114584	.0132558	0.86	0.387	0145242	.0374409
ppdays	.0085947	.0029474	2.92	0.004	.0028175	.0143719
cluster#c.ppdays						
1	0036598	.0034655	-1.06	0.291	0104525	.0031329
2	.0086805	.0036818	2.36	0.018	.0014639	.0158971
3	0026913	.0032509	-0.83	0.408	0090634	.0036808
4	.000123	.0032468	0.04	0.970	006241	.006487
gt90	0182672	.00315	-5.80	0.000	0244415	0120929
cluster#c.gt90						

Friday June 28 19	9:48:53 2024	Page 7				
1	0197907	.003789	-5.22	0.000	0272174	012364
2	.0077586	.0040595	1.91	0.056	0001985	.0157156
3	0130645	.0035759	-3.65	0.000	0200737	0060554
4	0014108	.0035571	-0.40	0.692	0083831	.0055615
·			• • • • • • • • • • • • • • • • • • • •	0.002	***************************************	***************************************
pmax	.0502041	.0262724	1.91	0.056	0012922	.1017005
cluster#c.pmax						
1	.0485908	.0313455	1.55	0.121	0128493	.1100309
2	0584278	.0334358	-1.75	0.081	1239651	.0071095
3	.0190062	.0290553	0.65	0.513	0379449	.0759573
4	.0123224	.029123	0.42	0.672	0447613	.0694062
tave	.0444233	.0056527	7.86	0.000	.0333436	.0555031
cluster#c.tave						
1	.037705	.0068095	5.54	0.000	.0243578	.0510522
2	0215592	.0073405	-2.94	0.003	0359473	0071711
3	.024675	.0064199	3.84	0.000	.0120915	.0372585
4	.0016895	.0063993	0.26	0.792	0108537	.0142328
tmin	0608238	.0063949	-9.51	0.000	0733584	0482892
cluster#c.tmin						
1	0311943	.0076454	-4.08	0.000	0461799	0162086
2	.0224492	.0081064	2.77	0.006	.0065599	.0383385
3	0184873	.0071679	-2.58	0.010	0325371	0044374
4	001564	.0071244	-0.22	0.826	0155285	.0124004
•	1002504	10072211	0.22	0.020	.0233203	1022-100-1
totalpp	.0019404	.0028159	0.69	0.491	003579	.0074599
cluster#c.totalpp						
1	.0007052	.003411	0.21	0.836	0059807	.0073911
2	0036577	.0038765	-0.94	0.345	011256	.0039405
3	.0011858	.0031873	0.37	0.710	0050615	.0074332
4	0027125	.0031969	-0.85	0.396	0089786	.0035537
·	10027222	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.05	01220	100027.00	***************************************
cdd	.0009224	.0001793	5.14	0.000	.000571	.0012739
cluster#c.cdd						
1	.0005145	.0002143	2.40	0.016	.0000945	.0009344
2	0003791	.0002145	-1.69	0.091	0008191	.0000608
3	.0003731	.0001998	1.40	0.162	00011124	.0006707
4	.0002731	.0001986	0.20	0.102	0003503	.0004283
•		.0002300	0.20	0.011	.0003303	1000-1203
_cons	-12.51553	.3839707	-32.60	0.000	-13.26815	-11.76292
sigma u	1.5441551					
sigma_u sigma_e	.38410686					
rho	.94172953	(fraction	of varia	nce due t	to u i)	
	.542,2555	(1. accion	Ju. 101			

<sup>19 .</sup> predict Phat4
 (option xb assumed; fitted values)

Overall = **0.0173** 

```
20 . xtreg Q c.Phat4##i.cluster DOS_t ppdays gt90 pmax tave tmin totalpp cdd, fe vce(robust)
   note: 1.cluster omitted because of collinearity.
   note: 2.cluster omitted because of collinearity.
   note: 3.cluster omitted because of collinearity.
   note: 4.cluster omitted because of collinearity.
                                                                            202,507
   Fixed-effects (within) regression
                                                    Number of obs
                                                    Number of groups =
   Group variable: user_
                                                                             18,444
   R-squared:
                                                    Obs per group:
        Within = 0.1738
                                                                   min =
                                                                                  1
        Between = 0.0401
                                                                               11.0
                                                                   avg =
        Overall = 0.0026
                                                                   max =
                                                                                 11
                                                    F(13,18443)
                                                                            1577.50
                                                                       =
   corr(u_i, Xb) = -0.5438
                                                    Prob > F
                                                                             0.0000
                                    (Std. err. adjusted for 18,444 clusters in user_)
                                    Robust
                 Q
                     Coefficient std. err.
                                                  +
                                                       P>|t|
                                                                  [95% conf. interval]
             Phat4
                       -.1432063
                                    .033404
                                               -4.29
                                                       0.000
                                                                 -.2086812
                                                                             -.0777315
           cluster
                1
                              0
                                  (omitted)
                                  (omitted)
                2
                              0
                3
                              0
                                  (omitted)
                4
                                  (omitted)
   cluster#c.Phat4
                1
                       -.0815826
                                   .0220396
                                               -3.70
                                                       0.000
                                                                 -.1247822
                                                                              -.038383
                       .0287024
                                                1.24
                                                       0.215
                                                                              .0741228
                2
                                   .0231726
                                                                 -.0167179
                3
                       -.0601957
                                   .0206403
                                               -2.92
                                                       0.004
                                                                 -.1006527
                                                                             -.0197388
                4
                       -.0350511
                                   .0200181
                                               -1.75
                                                       0.080
                                                                 -.0742884
                                                                              .0041862
             DOS_t
                       .0474048
                                   .0027889
                                               17.00
                                                       0.000
                                                                  .0419384
                                                                              .0528713
                       -.0121416
            ppdays
                                   .0003272
                                              -37.11
                                                       0.000
                                                                 -.0127829
                                                                             -.0115003
                       .0116858
                                   .0007957
                                               14.69
                                                       0.000
              gt90
                                                                  .0101263
                                                                              .0132454
                       .0866362
                                   .0039565
                                               21.90
                                                       0.000
                                                                  .0788811
                                                                              .0943913
              pmax
                       -.0141293
                                               -7.12
                                                       0.000
              tave
                                   .0019857
                                                                 -.0180214
                                                                             -.0102372
              tmin
                       .0310224
                                   .0023216
                                               13.36
                                                       0.000
                                                                  .0264717
                                                                               .035573
                                              -15.00
                                                       0.000
           totalpp
                       -.0104419
                                   .0006959
                                                                  -.011806
                                                                             -.0090777
                      -.0004109
                                   .0000349
                                                       0.000
                                                                 -.0004792
                                                                              -.0003426
               cdd
                                              -11.79
                                                       0.000
             _cons
                        3.11397
                                   .2475755
                                               12.58
                                                                  2.628699
                                                                              3.599241
                      .76961126
           sigma u
           sigma_e
                       .38193735
                       .80238342
                                   (fraction of variance due to u_i)
               rho
21 . xtreg P_ave c.FC##i.cluster c.DOS##i.cluster DOS_t ppdays gt90 pmax tave tmin totalpp cdd, fe vce(robust)
   note: 1.cluster omitted because of collinearity.
   note: 2.cluster omitted because of collinearity.
   note: 3.cluster omitted because of collinearity.
   note: 4.cluster omitted because of collinearity.
   Fixed-effects (within) regression
                                                    Number of obs
                                                                            202,507
   Group variable: user_
                                                    Number of groups =
                                                                             18,444
   R-squared:
                                                    Obs per group:
        Within = 0.1935
                                                                   min =
                                                                                  1
        Between = 0.0009
                                                                               11.0
                                                                   avg =
```

max =

11

 $corr(u_i, Xb) = -0.8127$ 

F(18,18443) = 1447.79 Prob > F = 0.0000

(Std. err. adjusted for 18,444 clusters in user\_)

		Robust				
P_ave	Coefficient	std. err.	t	P> t	[95% conf.	interval
FC	.1066345	.009215	11.57	0.000	.0885723	.124696
cluster						
1	0	(omitted)				
2	0	(omitted)				
3	0	(omitted)				
4	0	(omitted)				
cluster#c.FC						
1	.0290203	.0099223	2.92	0.003	.0095716	.048469
2	.0058896	.009391	0.63	0.531	0125177	.024296
3	0003887	.0089029	-0.04	0.965	0178392	.017061
4	.0035902	.008418	0.43	0.670	0129098	.020090
DOS	.0396834	.0056772	6.99	0.000	.0285556	.050811
:luster#c.DOS						
1	0151562	.0050847	-2.98	0.003	0251227	005189
2	0016445	.0054318	-0.30	0.762	0122914	.009002
3	0170185	.0046897	-3.63	0.000	0262107	007826
4	0017636	.0047271	-0.37	0.709	0110292	.00750
DOS_t	.0863192	.0031821	27.13	0.000	.0800821	.092556
ppdays	.0081636	.000783	10.43	0.000	.0066289	.009698
gt90	0256474	.0009232	-27.78	0.000	027457	023837
pmax	.0622555	.0072019	8.64	0.000	.0481391	.076371
tave	.0573018	.0016697	34.32	0.000	.054029	.060574
tmin	070416	.0017975	-39.17	0.000	0739394	066892
totalpp	.0012166	.0008474	1.44	0.151	0004444	.002877
cdd	.001076	.0000494	21.79	0.000	.0009792	.001172
_cons	-12.51544	.3840306	-32.59	0.000	-13.26817	-11.762
sigma_u	.51050141					
sigma_e	.38454918					
rho	.6379883	(fraction	of varia	nce due t	oui)	

# 22 . predict Phat5 (option xb assumed; fitted values)

## 23 . xtreg Q Phat5 DOS\_t ppdays gt90 pmax tave tmin totalpp cdd, fe vce(robust)

Fixed-effects (within) regression Group variable: user_	Number of obs Number of groups		202,507 18,444
R-squared:	Obs per group:		
Within = <b>0.1735</b>	min	=	1
Between = <b>0.0108</b>	avg	=	11.0
Overall = <b>0.0594</b>	max	=	11
	F(9,18443)	=	2250.75
$corr(u_i, Xb) = -0.0048$	Prob > F	=	0.0000

(Std. err. adjusted for 18,444 clusters in user\_)

Q	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
Phat5	.1665322	.0338142	4.92	0.000	.1002533	.2328111
DOS_t	.0116789	.0030741	3.80	0.000	.0056534	.0177044
ppdays	0134846	.0003411	-39.53	0.000	0141532	012816
gt90	.0142761	.0008335	17.13	0.000	.0126423	.0159099
pmax	.0419936	.0042655	9.85	0.000	.0336329	.0503543
tave	0259827	.0021726	-11.96	0.000	0302412	0217242
tmin	.0511578	.0026355	19.41	0.000	.0459919	.0563236
totalpp	0053059	.0006706	-7.91	0.000	0066202	0039915
cdd	0006857	.0000389	-17.61	0.000	0007621	0006094
_cons	6.213867	.2804319	22.16	0.000	5.664195	6.76354
sigma u	.62571894					
sigma e	.381995					
rho	.72849249	(fraction	of varia	nce due t	o u_i)	
	. / 2043243	(11 accion	UI Val'Iai	ince due t	.o u_i,	

24 . xtreg Q c.Phat5##i.cluster DOS\_t ppdays gt90 pmax tave tmin totalpp cdd, fe vce(robust)

note: 1.cluster omitted because of collinearity.
note: 2.cluster omitted because of collinearity.
note: 3.cluster omitted because of collinearity.
note: 4.cluster omitted because of collinearity.

Fixed-effects (within) regression

Group variable: user\_

Number of obs = 202,507

Number of groups = 18,444

R-squared: Obs per group:

 Within = 0.1738
 min = 1

 Between = 0.0179
 avg = 11.0

 Overall = 0.0177
 max = 11

F(13,18443) = 1576.84 $corr(u_i, Xb) = -0.1551$  Prob > F = 0.0000

(Std. err. adjusted for 18,444 clusters in user\_)

		Robust		- 1.1		
Q	Coefficient	std. err.	t	P> t	[95% conf.	. interval]
Phat5	.1796438	.0371872	4.83	0.000	.1067534	.2525341
cluster						
1	0	(omitted)				
2	0	(omitted)				
3	0	(omitted)				
4	0	(omitted)				
cluster#c.Phat5						
1	0734497	.022078	-3.33	0.001	1167247	0301747
2	.0484964	.023142	2.10	0.036	.0031359	.0938568
3	0375286	.0205476	-1.83	0.068	0778038	.0027466
4	0410296	.0200549	-2.05	0.041	080339	0017201
DOS t	.013698	.0031228	4.39	0.000	.007577	.0198191
ppdays	0133888	.0003422	-39.13	0.000	0140596	0127181
gt90	.0141667	.000837	16.93	0.000	.0125261	.0158072
pmax	.0441554	.0043113	10.24	0.000	.035705	.0526059
tave	0254034	.002189	-11.60	0.000	0296941	0211127
tmin	.0501491	.0026645	18.82	0.000	.0449263	.0553718
totalpp	0055803	.0006673	-8.36	0.000	0068884	0042723
cdd	0006727	.0000394	-17.09	0.000	0007499	0005956
_cons	6.038645	.285539	21.15	0.000	5.478962	6.598327
	1					

Friday June 28 19:48:54 2024 Page 11