

name: <unnamed>
log: M:\Projects\Graham\Steroids\2017Submission\Stata\runlots.log
log type: text
opened on: 3 Oct 2017, 17:19:33



```
.
. do poissonshell 1280 2.82 0.335 0.69 0.69 105637 10000

. *****
. *
. * Program to try out power and sample size for COS project
. *
. * this is the "shell" program for poissonpower
. *
. *
. * Author: Susanne May
. * Date: 09/16/2017
. *
. *
. * this program requires 5 input parameters, NOTE input parameter do not seem to work, directly
code the values instead
. *
. *      1 = number of observations total (to be divided into 2 groups)
. *      2 = exp(beta0) for the SOC group
. *      3 = exp(beta1) for the tx group
. *      4 = percent of observations with zero count/outcome value in SOC group (1)
. *      5 = percent of observations with zero count/outcome value in tx group (2)
. *      6 = random number seed
. *      7 = number of replications
. *      8 = number of log output file
. *
. *      . do poissonshell 1280 3.1 0.31 0.69 0.69 39083 500
. *
. *****
.
.      display "Simulation started  $S_DATE    $S_TIME"
Simulation started   3 Oct 2017    17:19:33

.
.      clear

.      use one

.      replace nummer=1 in 1
(0 real changes made)

.      save,replace
file one.dta saved

.      clear

.
.      simulate obs=r(obs) meanSOC1=r(meanSOC1) sdSOC1=r(sdSOC1) n1=r(n1) n1_0s=r(n1_0s)
perc0sSOC1=r(perc0sSOC1) ///
>      meantx2=r(meantx2) sdtx2=r(sdtx2) n2=r(n2) n2_0s=r(n2_0s) perc0stx2=r(perc0stx2) ///
>      meandiff=r(meandiff) realdiff=r(realdiff) ///
>      pvallrtest=r(pvallrtest) chi2lrtest=r(chi2lrtest) reject05lrtest=r(reject05lrtest) ///
>      pvaltttestu=r(pvaltttestu) tttestu=r(tttestu) reject05tttestu=r(reject05tttestu)
incittu=r(incittu) ///
>      pvalttteste=r(pvalttteste) ttteste=r(ttteste) reject05ttteste=r(reject05ttteste)
incitte=r(incitte) ///
>      blwo=r(blwo) blsewo=r(blsewo) blpvalwo=r(blpvalwo) reject05regrwo=r(reject05regrwo)
bluciwo=r(bluciwo) blliciwo=r(blliciwo) incilrwo=r(incilrwo) ///
>      blw=r(blw) blsew=r(blsew) blpvalw=r(blpvalw) reject05regrw=r(reject05regrw)
bluciw=r(bluciw) blliciw=r(blliciw) incilrw=r(incilrw) ///
>      , reps(`7'): simula, nn(`1') beta0(`2') beta1(`3') perc0s1(`4') perc0s2(`5')
seed(`6')
```

```

command:  simula, nn(1280) beta0(2.82) beta1(0.335) perc0s1(0.69) perc0s2(0.69)
seed(105637)
obs:      r(obs)
meanSOC1: r(meanSOC1)
sdSOC1:   r(sdSOC1)
n1:       r(n1)
n1_0s:    r(n1_0s)
perc0sSOC1: r(perc0sSOC1)
meantx2:  r(meantx2)
sdtx2:    r(sdtx2)
n2:       r(n2)
n2_0s:    r(n2_0s)
perc0stx2: r(perc0stx2)
meandiff: r(meandiff)
realdiff: r(realdiff)
pvallrtest: r(pvallrtest)
chi2lrtest: r(chi2lrtest)
reject05lrtest: r(reject05lrtest)
pvaltttestu: r(pvaltttestu)
tttestu: r(tttestu)
reject05tttestu: r(reject05tttestu)
incittu: r(incittu)
pvalttteste: r(pvalttteste)
ttteste: r(ttteste)
reject05ttteste: r(reject05ttteste)
incitte: r(incitte)
blwo: r(blwo)
blsewo: r(blsewo)
blpvalwo: r(blpvalwo)
reject05regrwo: r(reject05regrwo)
bluciwo: r(bluciwo)
blliciwo: r(blliciwo)
incilrwo: r(incilrwo)
blw: r(blw)
blsew: r(blsew)
blpvalw: r(blpvalw)
reject05regrw: r(reject05regrw)
bluciw: r(bluciw)
bllici: r(bllici)
incilrw: r(incilrw)

```

Simulations (10000)

```

-----+--- 1 ---+--- 2 ---+--- 3 ---+--- 4 ---+--- 5
..... 50
..... 100
..... 150
..... 200
..... 250
..... 300
..... 350
..... 400
..... 450
..... 500
..... 550
..... 600
..... 650
..... 700
..... 750
..... 800
..... 850
..... 900
..... 950
..... 1000
..... 1050
..... 1100
..... 1150
..... 1200
..... 1250
..... 1300
..... 1350

```

.....	1400
.....	1450
.....	1500
.....	1550
.....	1600
.....	1650
.....	1700
.....	1750
.....	1800
.....	1850
.....	1900
.....	1950
.....	2000
.....	2050
.....	2100
.....	2150
.....	2200
.....	2250
.....	2300
.....	2350
.....	2400
.....	2450
.....	2500
.....	2550
.....	2600
.....	2650
.....	2700
.....	2750
.....	2800
.....	2850
.....	2900
.....	2950
.....	3000
.....	3050
.....	3100
.....	3150
.....	3200
.....	3250
.....	3300
.....	3350
.....	3400
.....	3450
.....	3500
.....	3550
.....	3600
.....	3650
.....	3700
.....	3750
.....	3800
.....	3850
.....	3900
.....	3950
.....	4000
.....	4050
.....	4100
.....	4150
.....	4200
.....	4250
.....	4300
.....	4350
.....	4400
.....	4450
.....	4500
.....	4550
.....	4600
.....	4650
.....	4700
.....	4750
.....	4800
.....	4850

.....	4900
.....	4950
.....	5000
.....	5050
.....	5100
.....	5150
.....	5200
.....	5250
.....	5300
.....	5350
.....	5400
.....	5450
.....	5500
.....	5550
.....	5600
.....	5650
.....	5700
.....	5750
.....	5800
.....	5850
.....	5900
.....	5950
.....	6000
.....	6050
.....	6100
.....	6150
.....	6200
.....	6250
.....	6300
.....	6350
.....	6400
.....	6450
.....	6500
.....	6550
.....	6600
.....	6650
.....	6700
.....	6750
.....	6800
.....	6850
.....	6900
.....	6950
.....	7000
.....	7050
.....	7100
.....	7150
.....	7200
.....	7250
.....	7300
.....	7350
.....	7400
.....	7450
.....	7500
.....	7550
.....	7600
.....	7650
.....	7700
.....	7750
.....	7800
.....	7850
.....	7900
.....	7950
.....	8000
.....	8050
.....	8100
.....	8150
.....	8200
.....	8250
.....	8300
.....	8350

```

..... 8400
..... 8450
..... 8500
..... 8550
..... 8600
..... 8650
..... 8700
..... 8750
..... 8800
..... 8850
..... 8900
..... 8950
..... 9000
..... 9050
..... 9100
..... 9150
..... 9200
..... 9250
..... 9300
..... 9350
..... 9400
..... 9450
..... 9500
..... 9550
..... 9600
..... 9650
..... 9700
..... 9750
..... 9800
..... 9850
..... 9900
..... 9950
..... 10000

```

```

.
. display "Program was run as: do poissonshell `*'"
Program was run as: do poissonshell 1280 2.82 0.335 0.69 0.69 105637 10000

```

```

. display "with arguments: n beta0 betal perc0s1 perc0s2 seed reps"
with arguments: n beta0 betal perc0s1 perc0s2 seed reps

```

```

. sum obs-realdiff

```

Variable	Obs	Mean	Std. Dev.	Min	Max
obs	10,000	1280	0	1280	1280
meanSOC1	10,000	5.202284	.3225202	4.023438	6.503125
sdSOC1	10,000	8.084327	.1998331	7.294434	8.860343
n1	10,000	640	0	640	640
n1_0s	10,000	441.5056	11.78825	393	484
perc0sSOC1	10,000	.6898525	.0184191	.6140625	.75625
meantx2	10,000	7.275381	.4381725	5.707812	9.160937
sdtx2	10,000	11.17779	.2484389	10.11804	12.00482
n2	10,000	640	0	640	640
n2_0s	10,000	441.499	11.61818	390	483
perc0stx2	10,000	.6898431	.0181534	.609375	.7546875
meandiff	10,000	2.073098	.543374	-.1203125	4.31875
realdiff	10,000	2.069618	0	2.069618	2.069618

```

. sum pvallrtest-reject05lrtest

```

Variable	Obs	Mean	Std. Dev.	Min	Max
pvallrtest	10,000	.0000465	.0038226	0	.3782551
chi2lrtest	10,000	235.9503	116.0975	.7763651	918.0282
reject05lr~t	10,000	.9998	.0141414	0	1

```

. sum pvaltteste-incitte

```

Variable	Obs	Mean	Std. Dev.	Min	Max
pvaltteste	10,000	.0063567	.0280951	9.69e-15	.8225604
ttteste	10,000	-3.796412	.9760573	-7.836513	.2242992
reject05tt~e	10,000	.9699	.170871	0	1
incitte	10,000	.9509	.2160876	0	1

. sum pvalttestu-incittu

Variable	Obs	Mean	Std. Dev.	Min	Max
pvalttestu	10,000	.0063594	.0280972	1.09e-14	.8225618
tttestu	10,000	-3.796412	.9760573	-7.836513	.2242992
reject05tt~u	10,000	.9698	.1711458	0	1
incittu	10,000	.951	.2158788	0	1

. sum blwo-incilrwo

Variable	Obs	Mean	Std. Dev.	Min	Max
blwo	10,000	2.073098	.543374	-.1203125	4.31875
blsewo	10,000	.5453593	.0092091	.5071365	.5766491
blpvalwo	10,000	.0063567	.0280951	9.69e-15	.8225604
reject05re~o	10,000	.9699	.170871	0	1
bluciwo	10,000	1.0032	.5371976	-1.17262	3.237578
bllciwo	10,000	3.142995	.5500746	.931995	5.399922
incilrwo	10,000	.9509	.2160876	0	1

. sum blw-incilrw

Variable	Obs	Mean	Std. Dev.	Min	Max
blw	10,000	2.073098	.543374	-.1203125	4.31875
blsew	10,000	.5453593	.0092091	.5071365	.5766491
blpvalw	10,000	.0063567	.0280951	9.69e-15	.8225604
reject05re~w	10,000	.9699	.170871	0	1
bluciw	10,000	1.0032	.5371976	-1.17262	3.237578
bllciw	10,000	3.142995	.5500746	.931995	5.399922
incilrw	10,000	.9509	.2160876	0	1

. capture save results.dta, replace

. display "Simulation ended \$S_DATE \$S_TIME"
Simulation ended 3 Oct 2017 17:38:23

.
.
.
.
end of do-file

. *do poissonshell 1280 2.82 0.27 0.69 0.67 427433 1000
.
. log close
name: <unnamed>
log: M:\Projects\Graham\Steroids\2017Submission\Stata\runlots.log
log type: text
closed on: 3 Oct 2017, 17:38:23