

```
. reg change log_Y60 log_invest log_sum log_school,r, if N==1
```

```
Linear regression                                Number of obs   =          98
                                                F(4, 93)       =        25.98
                                                Prob > F       =        0.0000
                                                R-squared     =        0.4855
                                                Root MSE     =        .32702
```

change	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
log_Y60	-.2883738	.0542756	-5.31	0.000	-.3961543	-.1805932
log_invest	.5237367	.1072914	4.88	0.000	.3106773	.7367961
log_sum	-.5056568	.2360327	-2.14	0.035	-.9743709	-.0369427
log_school	.2311172	.0664041	3.48	0.001	.0992517	.3629826
_cons	3.021522	.7373094	4.10	0.000	1.557372	4.485672

```
. constraint 1 log_invest+ log_sum+log_school=0
```

```
. cnsreg change log_Y60 log_invest log_sum log_school,r, if N==1, constraint(1)
```

```
Constrained linear regression                                Number of obs =          98
                                                F(3, 94)      =        33.36
                                                Prob > F      =        0.0000
                                                Root MSE     =        0.3265
```

```
( 1) log_invest + log_sum + log_school = 0
```

change	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
log_Y60	-.2979014	.0527896	-5.64	0.000	-.4027164	-.1930863
log_invest	.5006704	.0918335	5.45	0.000	.3183329	.683008
log_sum	-.7358563	.0776923	-9.47	0.000	-.8901162	-.5815964
log_school	.2351858	.0650029	3.62	0.000	.1061211	.3642505
_cons	2.456913	.4390262	5.60	0.000	1.585216	3.32861

```
. test log_invest= -log_sum-log_school  
  
( 1)  log_invest + log_sum + log_school = 0  
  
      F( 1, 93) = 0.84  
      Prob > F = 0.3628
```

Thus we reject the null that $\beta_3 + \beta_4 + \beta_5 = 0$