

In all examples in this section I estimate IGEs with the short-run measure of parental income based on one year of information, which is what is typically available in the two-sample context. Like **ivpoisson**, **igetwos** does not accept the survey prefix **svy** but does allow population weights, which need to be specified with the data at hand. It also allows to request a weight matrix that accounts for arbitrary correlation among observations within clusters, and that cluster-robust standard errors be computed, both of which are also needed with the data I use.¹³ In all cases I specify the option **othergmm(nolog)** to save space, but it's better not to do so (to be able to examine the iteration log for potential convergence issues).

In the first example I use parents' years of education as instrument. The command and the corresponding output is this:

```
. igetwos c_inc [pw=c_pweight], instruments(p_yeduc) sampaux(aux) depvaraux(p_ln_srinc_ly) wmatrix (cluster cluster) othergmm
> (nolog)

Final GMM criterion Q(b) = 7.53e-31

note: model is exactly identified

GMM estimation

Number of parameters = 4
Number of moments = 4
Initial weight matrix: Identity          Number of obs = 1,646
GMM weight matrix: Cluster (cluster)

Two-sample estimation of the intergenerational elasticity of the expectation
GMM-E-TS estimator
              (Std. Err. adjusted for 823 clusters in cluster)
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```

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
p_yeduc	.151169	.0118903	12.71	0.000	.1278644	.1744736
_cons	9.249505	.1560973	59.25	0.000	8.94356	9.55545
/main_ige	.7601429	.096159	7.91	0.000	.5716748	.948611
/main_cons	-8.522528	1.078968	-7.90	0.000	-10.63727	-6.40779

```
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Instruments for equation aux: p_yeduc _cons
Instruments for equation main: p_yeduc _cons
The dependent variable was standardized by dividing it by its mean in the main sample
```

As with the **poisson** and **ivpoisson** commands, it is straightforward to add controls for parents' or children's age, and to specify different intercepts for different subpopulations. Here I

¹³ This is needed because of the relationship between the observations in the main and the auxiliary samples (see Mitnik 2017c:22).

