

Options

Main

`id(id_var)` is required and specifies the variable that contains the subject ID over which `pkcollapse` is to operate.

`stat(measures)` specifies the measures to be generated. The default is to generate all the measures.

`trapezoid` tells Stata to use the trapezoidal rule when calculating the AUC. The default is to use cubic splines, which give better results for most functions. When the curve is irregular, `trapezoid` may give better results.

`fit(#)` specifies the number of points to use in estimating the $AUC_{0,\infty}$. The default is `fit(3)`, the last three points. This number should be viewed as a minimum; the appropriate number of points will depend on your data.

`keep(varlist)` specifies the variables to be kept during the collapse. Variables not specified with the `keep()` option will be dropped. When `keep()` is specified, the keep variables are checked to ensure that all values of the variables are the same within `id_var`.

`force` forces the collapse, even when the values of the `keep()` variables are different within the `id_var`.

`nodots` suppresses the display of dots during calculation.

Remarks and examples

[stata.com](http://www.stata.com)

`pkcollapse` generates all the summary pharmacokinetic measures.

► Example 1

We demonstrate the use of `pkcollapse` with the data described in [R] [pk](#). We have drug concentration data on 15 subjects. Each subject is measured at 13 time points over a 32-hour period. Some of the records are

```
. use http://www.stata-press.com/data/r13/pkdata
. list, sep(0)
```

	id	seq	time	concA	concB
1.	1	1	0	0	0
2.	1	1	.5	3.073403	3.712592
3.	1	1	1	5.188444	6.230602
4.	1	1	1.5	5.898577	7.885944
5.	1	1	2	5.096378	9.241735
6.	1	1	3	6.094085	13.10507
			<i>(output omitted)</i>		
14.	2	1	0	0	0
15.	2	1	.5	2.48462	.9209593
16.	2	1	1	4.883569	5.925818
17.	2	1	1.5	7.253442	8.710549
18.	2	1	2	5.849345	10.90552
19.	2	1	3	6.761085	8.429898
			<i>(output omitted)</i>		
207.	20	2	24	4.673281	6.059818
208.	20	2	32	3.487347	5.213639

Although `pksumm` allows us to view all the pharmacokinetic measures, we can create a dataset with the measures by using `pkcollapse`.

```
. pkcollapse time concA concB, id(id) stat(auc) keep(seq)
.....
. list, sep(8) abbrev(10)
```

	id	seq	auc_concA	auc_concB
1.	1	1	150.9643	218.5551
2.	2	1	146.7606	133.3201
3.	3	1	160.6548	126.0635
4.	4	1	157.8622	96.17461
5.	5	1	133.6957	188.9038
6.	7	1	160.639	223.6922
7.	8	1	131.2604	104.0139
8.	9	1	168.5186	237.8962
9.	10	2	137.0627	139.7382
10.	12	2	153.4038	202.3942
11.	13	2	163.4593	136.7848
12.	14	2	146.0462	104.5191
13.	15	2	158.1457	165.8654
14.	18	2	147.1977	139.235
15.	19	2	164.9988	166.2391
16.	20	2	145.3823	158.5146

The resulting dataset, which we will call `pkdata2`, contains 1 observation per subject. This dataset is in wide format. If we want to use `pkcross` or `pkequiv`, we must transform these data to long format, which we do in the [last example](#) of [\[R\] pkshape](#).

◀

Methods and formulas

The statistics generated by `pkcollapse` are described in [\[R\] pkexamine](#).

Also see

[\[R\] pk](#) — Pharmacokinetic (biopharmaceutical) data