Description

pci is an immediate version of twoway pcspike; see [U] 19 Immediate commands and [G-2] graph twoway pcspike. pci is intended for programmer use but can be useful interactively.

Quick start

A paired-coordinate plot from (21, 40) to (22, 36)
   twoway pci 40 21 36 22

Draw two line segments such that they appear to form a single line
   twoway pci 40 21 36 22 || pci 36 22 39 24

Specify both line segments are black
   twoway pci 40 21 36 22 || pci 36 22 39 24, lcolor(black black)

Add the label “My label” to the line at 6 o’clock by recasting as pccapsym
   twoway pci 36 22 39 24 (6) "My label", recast(pccapsym) msymbol(i)

Menu

Graphics  >  Twoway graph (scatter, line, etc.)
Syntax

```
twowaypci immediate_values [, options]
```

where `immediate_values` is one or more of

```
#y1 #x1 #y2 #x2 [(#clockposstyle)] ["text for label"]
```


Options

`options` are as defined in [G-2] graph twoway pcspike, with the following modifications:

If "text for label" is specified among any of the immediate arguments, option `mlabel()` is assumed.

If (#clockposstyle) is specified among any of the immediate arguments, option `mlabvposition()` is assumed.

Also see the `marker_options` defined in [G-2] graph twoway pccapsym if the `recast()` option is used to change the spikes into a paired-coordinate plot that plots markers.

Remarks and examples

Immediate commands are commands that obtain data from numbers typed as arguments.

twoway pci does not modify the data in memory.

pci is intended for programmer use but can be used interactively. We can combine a pci plot with other twoway plots to produce a quick diagram.

We can improve the annotation with

```
. twoway function y = -x^2, range(-2 2) ||
   pci 0 1 0 -1 "Tangent", recast(pccapsym) mshape(i) ||
   pcarrowi 1.2 .5 0.05 0 "Maximum at x=0",
   legend(off) title("Characteristics of y = −x^{superscript:2}")
```

Characteristics of $y = -x^2$
A slightly more whimsical example is

```
. twoway pci 2 0 2 6 4 0 4 6 0 2 6 2 0 4 6 4 ||
    scatteri 5 1 3 3, msize(ehuge) ms(X)  ||
    scatteri 5 5 1 5, msize(ehuge) ms(Oh) legend(off)
```

![Graph](image_url)

⚠️ Technical note

Programmers: Note carefully `twoway`'s `advanced_option recast()`; see [G-3] _advanced_options_. It can be used to good effect, such as using `pci` to add marker labels.

Also see

[G-2] _graph twoway_ — Twoway graphs
[G-2] _graph twoway pcarrow_ — Paired-coordinate plot with arrows
[G-2] _graph twoway scatteri_ — Scatter with immediate arguments
[U] _19 Immediate commands_