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 AHELP for CIAO 3.4

## line

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## Synopsis

Adds a line to a drawing area and/or changes line attributes.

## Syntax

```
chips> [D #] LINE <x1> <y1> <x2> <y2>
```

## Description

To change line attributes:

```
chips> [D #] LN # <x1> <y1> <x2> <y2>
chips> [D #] {LN # | LINE} <color>
chips> [D #] {LN # | LINE} <linestyle>
chips> [D #] {LN # | LINE} WIDTH <width_value>
```

The LINE command can take many arguments:

```
Argument: <color>
Description: line color
Options: BLACK, BLUE, CYAN, DEFAULT, GREEN, MAGENTA, RED, WHITE, YELLOW
Default: DEFAULT (appears in ChIPS window as white; prints as black)
```

```
Argument: D #
Description: drawing area number designation
Options: integer numbers
Default: current drawing area
```

See the D command for more information about this argument.

```
Argument: <linestyle>
Description: style for line
Options: SOLID, DOT, DASH, LONGDASH, DOTDASH, DOTLONGDASH, DASHLONGDASH
Default: SOLID
```

```
Argument: LN #
Description: line number designation
Options: integer numbers
```

```
Argument: <width_value>
Description: line thickness
Options: real numbers
Default: 1.0
```

```
Argument: <x1>
```

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```
Description: X coordinate of start location for line  
Options: real numbers
```

```
Argument: <x2>  
Description: X coordinate of end location for line  
Options: real numbers
```

```
Argument: <y1>  
Description: Y coordinate of start location for line  
Options: real numbers
```

```
Argument: <y2>  
Description: Y coordinate of end location for line  
Options: real numbers
```

CIAO allows some plot attributes to be changed using the ChIPS state object and resource file. See "ahelp chips" for further details.

### Example 1

```
chips> CURVE data/exampleB.dat  
chips> D 1 LINE 1.0 1.8 3.0 1.8
```

After a curve has been plotted, a line is added that begins at (5.0, 1.0) and ends at (10.0, 2.0).

### Example 2

```
chips> CURVE data/exampleB.dat  
chips> D 1 LINE 1.0 1.8 3.0 1.8  
chips> LINE BLUE  
chips> LN 1 1.0 1.8 10.0 1.8  
chips> LINE DOTDASH  
chips> LINE WIDTH 5.0
```

A curve and line are plotted, and the color of the line is changed to blue. Then the LN command changes the endpoint of the line. The final two commands switch the line to a dot–dash style and increase the width to 5.0.

### Bugs

See the [bugs page for ChIPS](#) on the CIAO website for an up–to–date listing of known bugs.

### See Also

*chips*

[axes](#), [drawarea](#), [errs](#), [font](#), [grids](#), [label](#), [levels](#), [limits](#), [linear](#), [location](#), [log](#), [relativesize](#), [split](#), [symbol](#), [ticks](#), [tickvals](#), [title](#), [xlabel](#), [ylabel](#), [zlabel](#)

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URL:  
<http://cxc.harvard.edu/ciao3.4/line.html>  
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