

*AHELP for CIAO 3.4***sherpa.cov**Context: [sherpa](#)*Jump to:* [Description](#) [Examples](#) [Bugs](#)

Synopsis

Configure COVARIANCE in Sherpa.

Syntax

sherpa.cov.[field]

Description

The Sherpa configuration variable (also called "state object") `sherpa.cov` contains settings of COVARIANCE for calculating confidence intervals in Sherpa. See `ahelp COVARIANCE` for more details.

The structure field is:

Field	Description
<code>sigma</code>	Specifies the number of sigma (i.e., the change in statistic).

To restore the default settings of `sherpa.cov` at any time, use the Sherpa/S-Lang module function `restore_cov`.

Example 1

 sherpa> `sherpa.cov.sigma = 2.6`

This command sets confidence intervals calculated with COVARIANCE to 2.6 sigma.

Example 2

 sherpa> `sherpa.cov.sigma=1.6`
 sherpa> `list_cov`

Parameter	Current	Default	Description
<code>sigma</code>	1.6	1	Number of sigma

The first command sets confidence intervals calculated with COVARIANCE to 1.6 sigma. The second command lists the current and default setting of `sherpa.cov` field to the screen as shown in the table.

Example 3

```
sherpa> variable sc = sherpa.cov  
sherpa> sc.sigma = 2
```

The example shows how to create aliases for `sherpa.cov` in the first command and how to use the alias in the second command.

Bugs

See the [Sherpa bug pages](#) online for an up-to-date listing of known bugs.

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URL:
<http://cxc.harvard.edu/ciao3.4/sherpa.cov.html>
Last modified: December 2006