

*AHELP for CIAO 3.4*

sherpa.proj

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Synopsis

Configure PROJECTION in Sherpa.

Syntax

```
sherpa.proj.[field]
```

Description

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

The following table lists each field of `sherpa.proj`, with a description and the default value:

| Field Name | Description | Default |
|--------------------|--|---------|
| <code>fast</code> | Use levenberg–marquardt (or simplex if using Cash) in place of current optimization method (0 = false, 1 = true) | 1 |
| <code>sigma</code> | Specifies the number of sigma (i.e. the change in fit statistic). | 1 |

To restore the default settings use the Sherpa/S–Lang module function `restore_proj`.

Example 1

The `sherpa.proj` settings can be changed at the command line.

```
sherpa> sherpa.proj.fast = 0
```

Example 2

List the current settings of `sherpa.proj` and set confidence level to 1.6 sigma in the second command.

| | | | |
|-----------------------------------|---------|---------|-------------|
| <code>sherpa> list_proj</code> | | | |
| Parameter | Current | Default | Description |
| ----- | | | |

```
fast      1      1      Switch to LM/simplex: 0(n)/1(y)
sigma     1      1      Number of sigma

sherpa> sherpa.proj.sigma=1.6
```

Example 3

List the current and default values of sherpa.proj and restore the default values:

```
sherpa> sherpa.proj.sigma = 5

sherpa> list_proj
Parameter Current      Default      Description
-----
fast      1      1      Switch to LM/simplex: 0(n)/1(y)
sigma     5      1      Number of sigma

sherpa> restore_proj

sherpa> list_proj

Parameter Current      Default      Description
-----
fast      1      1      Switch to LM/simplex: 0(n)/1(y)
sigma     1      1      Number of sigma
```

Example 4

Create an alias sp to sherpa.proj and use it.

```
sherpa> variable sp = sherpa.proj
sherpa> sp.fast = 0
```

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.proj.html>
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