



 AHELP for CIAO 3.4

sherpa.proj

Context: [sherpa](#)

Jump to: [Description](#) [Examples](#) [Bugs](#)

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 |
|------------|--|---------|
| fast | Use levenberg-marquardt (or simplex if using Cash) in place of current optimization method (0 = false, 1 = true) | 1 |
| sigma | 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.

```
sherpa> list_proj
```

| 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.