URL: http://cxc.harvard.edu/ciao3.4/sherpa.unc.html
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AHELP for CIAO 3.4

sherpa.unc

Context: sherpa

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Synopsis

Configure UNCERTAINTY in Sherpa.

Syntax

```
sherpa.unc.[field]
```

Description

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

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

Field Name	Description	Default
sigma	Specifies the number of sigma (i.e. the change in fit statistic).	1
eps	How close (in units of sigma) the fit must get to the threshold sigma value before the search for the confidence interval bounds is terminated	0.01
remin	Change in statistic value that can trigger reminimization	0.01

To restore the default settings use the Sherpa/S−Lang module function restore_unc.

Example 1

The sherpa.unc settings can be changed at the command line.

```
sherpa> sherpa.unc.sigma = 2
```

Example 2

Set sigma to 5 in the first command and then list the current and default values of sherpa.unc and restore the default values.

```
sherpa> sherpa.unc.sigma = 5
sherpa> list_unc

Parameter   Current         Default                        Description
------------------------------------------------------------------------
sigma             5               1                    Number of sigma
eps            0.01            0.01                Tolerance for sigma
remin          0.01            0.01   Thresh stat change to reminimize

sherpa> restore_unc

sherpa> list_unc

Parameter   Current         Default                        Description
------------------------------------------------------------------------
sigma             1               1                    Number of sigma
eps            0.01            0.01                Tolerance for sigma
remin          0.01            0.01   Thresh stat change to reminimize
```

Example 3

Create an alias su for sherpa.unc and use it.

```
sherpa> variable su = sherpa.unc
sherpa> su.sigma = 2
```

Bugs

See the Sherpa bug pages online for an up−to−date listing of known bugs.

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