Chandra X-ray Center

AHELP for CIAO 3.4   **list_paramest**   Context: sherpa

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Synopsis

Module functions listing the current and default values of the parameters used to configure each Sherpa parameter estimation method.

Syntax

```
list_unc
list_proj
list_cov
list_intunc
list_intproj
list_regunc
list_regproj
```

Description

These functions cause tables to be displayed that show the names, current values, default values, and descriptions of the Sherpa configuration variables (also called "state objects") sherpa.unc et al. The variable values may be modified at the command line (see the example below).

To reset the current values to default values, use the functions restore_unc et al.

These functions replace the Sherpa commands SHOW UNCERTAINTY et al. See the related Sherpa commands UNCERTAINTY, PROJECTION, COVARIANCE, INTERVAL–UNCERTAINTY, INTERVAL–PROJECTION, REGION–UNCERTAINTY, and REGION–PROJECTION for more information.

Example

Modify the Sherpa state variable sherpa.regproj; display current values with list_regproj:

```
sherpa> sherpa.regproj.nloop = [30,20]
sherpa> sherpa.regproj.sigma = [1.6,2.6]  # 90 and 95 percent contours
sherpa> list_regproj
Parameter    Current         Default                        Description
```

```
-------------------------------------------------------------------------
fast             1                1          Switch to LM/simplex: 0(n)/1(y)
expfac           3                3             Expansion factor for grid
arange           1                1                Auto-range: 0(n)/1(y)
min            [0,0]            [0,0]          Minimum values, each axis
max            [0,0]            [0,0]          Maximum values, each axis
log            [0,0]            [0,0]   Log-spacing: 0(n)/1(y), each axis
nloop        [30,20]          [10,10]    Number of grid points, each axis
sigma       [1.6,2.6]         [1,2,3]       Number of sigma, each contour
```

Bugs

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

See Also

sherpa

> berrors, bsyserrors, compute_errors, compute_statistic, covariance, errors, ftest, get_paramest, get_paramestint, get_paramestlim, get_paramestreg, goodness, interval–projection, interval–uncertainty, mlr, projection, region–projection, region–uncertainty, restore_paramest, run_paramest, run_paramestint, run_paramestlim, run_paramestreg, set_errors, set_syserrors, staterrors, syserrors, uncertainty