AHELP for CIAO 3.4　　　　**sherpa.intunc**　　　　Context: sherpa

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Synopsis

Configure INTERVAL–UNCERTAINTY in Sherpa.

Syntax

```
sherpa.intunc.[field]
```

Description

The Sherpa configuration variable (also called "state object") sherpa.intunc contains settings of INTERVAL–UNCERTAINTY for plotting the fit statistic as a function of parameter value, using the UNCERTAINTY algorithm in Sherpa. See ahelp INTERVAL–UNCERTAINTY for more details.

The sherpa.intunc fields are listed in the table:

Field	Description
arange	If 1, the grid limits are to be determined automatically. If 0, the grid limits are specified (see min and max).
min	Specifies the grid minimum. This is always a linear quantity, regardless of the setting of log (see below). The setting is ignored if arange = 1.
max	Specifies the grid maximum. This is always a linear quantity, regardless of the setting of log (see below). The setting is ignored if arange = 1.
log	Specifies whether to use a linear (0) or logarithmic (1) spacing of grid points.
nloop	Specifies the number of grid points.
sigma	Specifies the number of sigma (i.e., the change in statistic) for the plot.

Field values may be set using directly, e.g.,

```
sherpa> sherpa.intunc.arange = 0
```

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

Example 1

List the current and default values of the intunc structure, and restore the default values:

```
sherpa> sherpa.intunc.arange = 0
sherpa> sherpa.intunc.log = 1
sherpa> sherpa.intunc.sigma = 5
sherpa> list_intunc
Parameter    Current         Default                         Description
-------------------------------------------------------------------
arange          0               1              Auto-range: 0(n)/1(y)
min             0               0                      Minimum value
max             0               0                      Maximum value
log             1               0              Log-spacing: 0(n)/1(y)
nloop          100             100             Number of grid points
sigma           5               1                     Number of sigma
sherpa> restore_intunc
sherpa> list_intunc
Parameter    Current         Default                         Description
-------------------------------------------------------------------
arange          1               1              Auto-range: 0(n)/1(y)
min             0               0                      Minimum value
max             0               0                      Maximum value
log             0               0              Log-spacing: 0(n)/1(y)
nloop          100             100             Number of grid points
sigma           1               1                     Number of sigma
```

Example 2

Create aliase for sherpa.intproj

```
sherpa> variable si = sherpa.intunc
sherpa> si.arange = 0
```

Bugs

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