



AHELP for CIAO 3.4

reset

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Synopsis

Restores settings and/or parameter values.

Syntax

```
sherpa> RESET [<arg>]
```

Description

<arg> may be:

RESET Command Arguments

Argument	Description
none	Equivalent to RESET MODELS
ALL	Equivalent to issuing RESET MODELS and RESET METHOD
MODELS	Restores the parameter values of all current model components to their latest user-defined (or GUESS command-defined) values.
<sherpa_model_stack> [# [ID]]	Restores the parameter values of all components of the specified model stack (SOURCE, BACKGROUND, PILEUP, [B]NOISE, or KERNEL) to their latest user-defined (or GUESS command-defined) values. # is a dataset number (default 1); see BACKGROUND for an explanation of ID.
<sherpa_modelname>	Restores the parameter values of the specified model component to their latest user-defined (or GUESS command-defined) values.
<modelname>	Restores the parameter values of the specified model component to their latest user-defined (or GUESS command-defined) values.
METHOD	Restores the parameter values of the current optimization method to their initial default values.
<sherpa_methodname>	Restores the parameter values of the specified optimization method to their initial default values.
[B]ERRORS [# [ID]]	Removes user-defined source or background data error values. Note that if the errors are not redefined, then they are subsequently computed using the current choice of statistic. # is a dataset number (default 1); see BERRORS for an explanation of ID.
[B]SYSERRORS [#	Resets the systematic error for every source or background data point to 0. # is a

[ID]]	dataset number (default 1); see BSYSEERRORS for an explanation of ID.
FILTER [#]	Clears user-defined filters. # is a dataset number (default 1). NOTE: the implementation of this command in CIAO 3.0 contains a bug, such that sometimes the source and background filters are reset, and sometime only one or the other; also, there is no RESET BFILTER.
[B]WEIGHTS [# [ID]]	Resets the statistical weight assignment for every source or background data point to 1. Removes user-defined source or background statistic weight settings. # is a dataset number (default 1); see READ BWEIGHTS for an explanation of ID.

ERASE is a related command that may be used to remove all user inputs and user-defined settings, or to remove a model component from the current Sherpa session.

Example 1

Restore the parameter values of the current method to the initial values:

```

sherpa> METHOD GRID
sherpa> SHOW METHOD
Optimization Method: Grid

      Name      Value      Min      Max      Description
      ----      -
1  totdim         4         1      24      Number of free parameters
2  nloop01        10         1    1e+07      Number of grid points
3  nloop02        10         1    1e+07      Number of grid points
4  nloop03        10         1    1e+07      Number of grid points
5  nloop04        10         1    1e+07      Number of grid points

sherpa> GRID.nloop01 = 2000
sherpa> SHOW METHOD
Optimization Method: Grid

      Name      Value      Min      Max      Description
      ----      -
1  totdim         4         1      24      Number of free parameters
2  nloop01       2000         1    1e+07      Number of grid points
3  nloop02        10         1    1e+07      Number of grid points
4  nloop03        10         1    1e+07      Number of grid points
5  nloop04        10         1    1e+07      Number of grid points

sherpa> RESET METHOD
sherpa> SHOW METHOD
Optimization Method: Grid

      Name      Value      Min      Max      Description
      ----      -
1  totdim         4         1      24      Number of free parameters
2  nloop01        10         1    1e+07      Number of grid points
3  nloop02        10         1    1e+07      Number of grid points
4  nloop03        10         1    1e+07      Number of grid points
5  nloop04        10         1    1e+07      Number of grid points

```

Example 2

Restore the parameter values, of the current model components, to the latest user-defined values:

```

sherpa> DATA example.dat
sherpa> PARAMPROMPT OFF
Model parameter prompting is off
sherpa> GAUSS[modelb]

```

```

sherpa> SOURCE 1 = modelb
sherpa> modelb.pos = 1.0
sherpa> SHOW modelb
gauss1d[modelb] (integration: on)
  Param   Type      Value      Min      Max      Units
  -----
  1  fwhm thawed    2.0185    0.0202  201.8513
  2   pos thawed     1         1         4
  3  ampl thawed    17        0.1700   1700
sherpa> FIT
sherpa> SHOW modelb
gauss1d[modelb] (integration: on)
  Param   Type      Value      Min      Max      Units
  -----
  1  fwhm thawed    3.3671    0.0202  201.8513
  2   pos thawed     4         1         4
  3  ampl thawed   10.1912    0.1700   1700
sherpa> RESET modelb
sherpa> SHOW modelb
gauss1d[modelb] (integration: on)
  Param   Type      Value      Min      Max      Units
  -----
  1  fwhm thawed    2.0185    0.0202  201.8513
  2   pos thawed     1         1         4
  3  ampl thawed    17        0.1700   1700

```

Bugs

See the [Sherpa bug pages](#) online for an up-to-date listing of known bugs.

See Also

chandra

[guide](#)

sherpa

[bye](#), [calc kcorr](#), [dataspace](#), [dcounts](#), [dollarsign](#), [echo](#), [eflux](#), [eqwidth](#), [erase](#), [flux](#), [get](#), [get dcounts sum](#), [get dir](#), [get eflux](#), [get eqwidth](#), [get filename](#), [get flux2d](#), [get flux str](#), [get lfactorial](#), [get mcounts sum](#), [get pflux](#), [get source components](#), [get verbose](#), [groupbycounts](#), [guess](#), [is](#), [journal](#), [list](#), [list par](#), [mcounts](#), [numbersign](#), [paramest](#), [plot eprof](#), [plot rprof](#), [prompt](#), [run](#), [set](#), [set analysis](#), [set axes](#), [set coord](#), [set dataspace](#), [set dir](#), [set verbose](#), [setplot](#), [sherpa-module](#), [sherpa plotfns](#), [sherpa utils](#), [show](#), [simspec](#), [use](#), [version](#)

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URL:
<http://cxc.harvard.edu/ciao3.4/reset.html>
Last modified: December 2006

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