



AHELP for CIAO 3.4

## unlink

Context: [sherpa](#)

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## Synopsis

Removes a link between model parameters.

## Syntax

```
sherpa> UNLINK <arg>
```

## Description

The command–line argument <arg> may be:

### UNLINK Command Argument

Argument	Description
<sherpa_modelname>.{<paramname>   <#>}	A specified model component parameter (e.g., GAUSS.pos).
<modelname>.{<paramname>   <#>}	A specified model component parameter (e.g., g.pos).

A link between two model parameters is established using the => operator (see examples, below); UNLINK breaks the link. When a link is removed between model parameters, the parameter value will be that of the parameter to which it had been linked. When a link is removed between a model parameter and a model stack, the parameter value will return to its value before such a link was established.

## Example 1

Set up, and then remove, a link between model parameters:

```
sherpa> ERASE ALL
sherpa> PARAMPROMPT ON
Model parameter prompting is on
sherpa> GAUSS[modelb]
modelb.fwhm parameter value [10]
modelb.pos parameter value [0]
modelb.ampl parameter value [1]
sherpa> GAUSS[modelf]
modelf.fwhm parameter value [10]
modelf.pos parameter value [0]
modelf.ampl parameter value [1]
sherpa> modelf.ampl => 0.5*modelb.ampl
```

The last command in this series uses a model parameter expression, to link the `ampl` parameter of `modelf` to 0.5 multiplied by the `ampl` parameter of `modelb`. That is, the amplitudes of two Gaussian models are linked, where one is half that of the other. Note that model parameter expressions cannot be created within the model parameter prompting. The link may be broken as follows:

```
sherpa> UNLINK modelf.ampl
```

## Example 2

Set up, and then remove, links between model parameters:

```
sherpa> PARAMPROMPT OFF
Model parameter prompting is off
sherpa> POW[modelc]
sherpa> POW[modeld]
sherpa> POW[modele]
sherpa> modelc.1 => modele.1
sherpa> modelc.3 => 2*modeld.3 - modele.3
```

The next-to last command in this series links the first parameter (`gamma`) of `modelc` to the first parameter of `modele`. The last command in this series links the third parameter (`ampl`) of `modelc` to the parameter expression: 2 multiplied by the third parameter of `modeld`, minus the third parameter of `modele`. The links may be broken as follows:

```
sherpa> UNLINK modelc.1
sherpa> UNLINK modelc.3
```

## Bugs

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

## See Also

*sherpa*

[autoest](#), [background](#), [create](#), [create model](#), [createparamset](#), [fit](#), [freeze](#), [get defined models](#), [get model params](#), [get models](#), [get num par](#), [get par](#), [get stackexpr](#), [getx](#), [gety](#), [guess](#), [instrument](#), [integrate](#), [is paramset](#), [jointmode](#), [kernel](#), [lineid](#), [linkparam](#), [mdl](#), [modeexpr](#), [modelstack](#), [nestedmodel](#), [noise](#), [paramprompt](#), [paramset](#), [pileup](#), [rename](#), [run fit](#), [set par](#), [set paramset](#), [set stackexpr](#), [source](#), [thaw](#), [truncate](#)