



 AHELP for CIAO 3.4

is_paramset

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Synopsis

Module functions to determine if whether the specified parameter(s) are thawed or frozen.

Syntax

```
Integer_Type is_thawed([String_Type])
Integer_Type is_frozen([String_Type])
```

Arguments:

(1) Model name, or model parameter name (default all model parameters)

Description

If:

- no argument is provided, these functions will return 1 if all model parameters are thawed, or frozen;
- a model component name is provided, these functions return 1 if all parameters of that model are thawed, or frozen; and
- if a model parameter name is provided, these functions return 1 if that parameter is thawed, or frozen.

See the related Sherpa commands THAW and FREEZE for more information.

Example

Determine if all parameters of a specified Gaussian model are thawed, then determine if the ampl parameter is frozen:

```
sherpa> PARAMPROMPT OFF
sherpa> GAUSS[g]
sherpa> is_thawed("g")
1
```

```
sherpa> is_frozen("g.ampl")  
0
```

The 1 returned from the first call indicates that yes, all parameters of the Gaussian model named g are thawed. The 0 returned from the second call indicates that no, the parameter g.ampl is not frozen.

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](#), [jointmode](#), [kernel](#), [lineid](#), [linkparam](#), [mdl](#), [modelexpr](#), [modelstack](#), [nestedmodel](#), [noise](#), [paramprompt](#), [paramset](#), [pileup](#), [rename](#), [run_fit](#), [set_par](#), [set_paramset](#), [set_stackexpr](#), [source](#), [thaw](#), [truncate](#), [unlink](#)

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URL:
http://cxc.harvard.edu/ciao3.4/is_paramset.html
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