URL: http://cxc.harvard.edu/ciao3.4/is_paramset.html
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AHELP for CIAO 3.4

is_paramset

Context: sherpa

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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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