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

set_paramset

Context: sherpa

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Synopsis

Module functions to thaw or freeze the specified parameter(s).

Syntax

```
Integer_Type set_thawed([String_Type])
Integer_Type set_frozen([String_Type])

Success/Error Return Values: 1/0

Arguments:

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

Description

If:

- no argument is provided, these functions will thaw or freeze all model parameters;
- a model component name is provided, these functions will thaw or freeze all parameters of that model; and
- if a model parameter name is provided, these functions will thaw or freeze that parameter.

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

Example

Freeze all parameters of a specified Gaussian model, then thaw the position parameter:

```
sherpa> PARAMPROMPT OFF
sherpa> GAUSS[g]
sherpa> set_frozen("g")
1
sherpa> set_thawed("g.pos")
1
sherpa> SHOW g
gauss1d[g]  (integrate: on)
```

```
    Param   Type      Value        Min        Max                Units
    -----   ----      -----        ---        ---                -----
 1   fwhm frozen         10 1.1755e-38 3.4028e+38
 2    pos thawed          0 -3.403e+38 3.4028e+38
 3   ampl frozen          1 -3.403e+38 3.4028e+38
```

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, modelexpr, modelstack, nestedmodel, noise, paramprompt, paramset, pileup, rename, run_fit, set_par, set_stackexpr, source, thaw, truncate, unlink

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