Chandra X-ray Center

AHELP for CIAO 3.4   **set_state_defaults**   Context: varmm

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Synopsis

Restore the default values of state (configuration) variables

Syntax

```
set_state_defaults( String_Type )
```

Description

The set_state_defaults() function is provided as a convenience to reset any CIAO state (also called configuration) variable, referenced by name, to its initial value. Currently CIAO contains three state variables, available when the relevant module is loaded into a S–Lang aware program:

- varmm – to control the behaviour of the Varmm module
- chips – to control the behaviour of the ChIPS module
- sherpa – to control the behaviour of the Sherpa module

The individual fields of state objects can be accessed as with any S–Lang structure; for instance "varmm.caseinsen = 1;". The Varmm set_state() function provides a means of changing multiple fields in one go.

Example 1

Set the Varmm state object to non–default values:

```
chips> varmm.readheader = 23
chips> varmm.rawkeys = 99
chips> print(varmm)
readheader      =   23
rawkeys         =   99
verbosity       =   1
caseinsen       =   0
```

We can now use set_state_defaults() to restore all settings with one call. Note that we supply the name of the state object, rather than the actual object itself:

```
chips> set_state_defaults("varmm")
chips> print(varmm)
readheader       =  1
rawkeys          =  1
verbosity        =  1
caseinsen        =  0
```

Example 2

Another use for this function is to restore the settings if they have been accidently trashed: for instance if you said

```
sherpa> sherpa.multiplot = 1
```

rather than

```
sherpa> sherpa.multiback = 1
```

then you will not be able to create anymore plots in Sherpa. To restore the sherpa configuration variables you can call set_state_defaults():

```
sherpa> set_state_defaults("sherpa")
```

Bugs

See the bugs page for the Varmm library on the CIAO website for an up−to−date listing of known bugs.

See Also

modules
>   varmm

varmm
>   set_state

Example 2