Chapter 1

NFRA

NFRA-related tools and modules

include "nfra.g"

Description
Package for NFRA-related functionality

1.1 CSM - Module

Component Source Models

1.1.1 csm_gui - Tool

Package nfra
Module CSM

Inspection and manipulation of component source models
include "csm_gui.g"

Description

`csm_gui` is a (GUI) utility that allows the user to inspect, edit and otherwise manipulate component source models (csm). It serves as a frontend for the componentlist DO, which interacts with the regular tables where the component lists are stored. The user may also use the componentlist DO directly, or even access a csm table with the regular table tools.
The functionality of the GUI is a superset of that to which NEWSTAR users are used. The main functions are:

- Opening a csm table and displaying its components in a listbox.
- Different component parameters may be displayed using the listbox buttons labelled 'col 1' and 'col 2'. It is also possible to view these parameters in different units. AIPS++ measures are used throughout.
- Editing the parameters of individual components. A separate editing panel pops up after clicking on a component in the listbox.
- Displaying a simple 'image' of the components by plotting them as crosses with a size proportional to their flux.
- Deleting selected components. After removing them, the components are merely 'inactive': they are ignored but can still be recovered. They are really deleted by closing the list, or by purging it explicitly.
- Creating and appending new components, e.g. for creating (simple) component models by hand.

In addition, there is an AIPS++ program (see mdl2scn), which converts an ASCII version of a NEWSTAR MDL file into an AIPS++ csm.
As the componentlist DO becomes richer, the csm GUI functionality will grow with it.

Example

The csm GUI is started up by:

```
include "csm_gui.g"
```

Hopefully, the GUI will then be self-evident. The GUI, and all its secondary panels, should be removed by means of the 'quit' option in the 'file' menu.