1. **newfont** *who's values is the font description string selected by the user.*

Example

```
include 'fontchooserwidget.g'
f := dws.frame();
myfont :=  '-adobe-courier-medium-r-normal--14-*'
fc := fontchooserwidget(f, myfont);
whenever fc->newvalue do {
  print 'font selected is ', $value;
}
```

1.4.12 gchooser - Tool

Package display
Module widgets

Tool for generating widgets for choosing items interactively
include "gchooser.g"

Description

This tool generates a Tk widget for choosing items interactively. The items must be associated with x, y coordinates, and a label. The items are plotted using the pgplotter, and the user is allowed to select items by left-clicking or to deselect items by right-clicking. The plot frame may also be printed as a postscript file or saved as an AIPS++ plot file.
An example of the use of gchooser is given in figure 1.12.
The constructor returns a subsequence with functions:

self.done *Delete this widget*

self.get *Get a record containing information on the choices*

self.insert *Insert a set of choices as a vector of the selected indices.*

The events are:

self-¿select *Returns index selected*

self-¿deselect *Returns index deselected*

self-¿values *A set of values was accepted. The returned record contains information about the choices.*

The selection works as follows:

To select a region *Click mouse button 1 (usually the left hand button) and drag over the region that you wish to select. All elements in the region delineated are selected, and the items selected are plotted in green.*

To select a given element *Click mouse button 2 (usually the middle button) near a label. The item selected in plotted in green.*

To deselect a given element *Click mouse button 3 (usually the right hand button) near a label. The item deselected in plotted in red.*

To select all items *Click the All button in the bottom left hand corner. All items will be plotted in green.*

To dselect all items *Click the None button in the bottom left hand corner. All items will be plotted in red.*

If the argument axes is set to 'sky', then the axes are labelled according to interpretation as Right Ascension (x) and Declination (y).

Example

```
include 'gchooser.g'
include 'table.g'
t:=table('3C273XC1.ms/ANTENNA');
position := t.getcol('POSITION');
labels := t.getcol('NAME');
indices := t.getcol('ANTENNA_ID')+1;
t.done();
x := position[2,];
y := -position[1,];

gc := gchooser(labels=labels, indices=indices, x=x, y=y, autoref=T,
 plottitle='Antenna locations',
 width=500, height=500);
whenever gc->values do {
  print "Values are ", $value;
}
whenever gc->select do {
  print "Selected ", $value
}
whenever gc->deselect do {
```

```
  print "Deselected ", $value
}
-
Selected 4
Selected 28
Selected 11
Selected 26
Selected 17
Selected 15
Selected 18
Selected 24
Values are [selection=[4 11 15 17 18 24 26 28] , labels=VLA:W6 VLA:OUT
VLA:N2 VLA:N4 VLA:E4 VLA:E6 VLA:E2 VLA:W2, x=[-207.86 37.1272 32.3322
25.3736 170.777 304.882 77.7937 0] , y=[-78.7424 14.7828 44.846
89.6066 -20.8221 -55.868 3.48509 0] ]
```

gchooser - Constructor

Package	**display**
Module	**widgets**
Tool	**gchooser**

Make a gchooser tool

Synopsis

gchooser(parent, labels, x, y, xref, yref, autoref, title, xlabel, ylabel, axes, plottitle, width, height, pad, widgetset)

Arguments

parent	*Parent frame: optional* *Allowed: frame agent* *Default: F*
labels	*List of labels* *Allowed: Vector of strings* *Default: ''*
x	*X positions* *Allowed: Numeric vector* *Default: []*
y	*Y positions* *Allowed: Numeric vector* *Default: []*
xref	*X reference* *Allowed: Numeric* *Default: unset*
yref	*Y reference* *Allowed: Numeric* *Default: unset*
autoref	*Determine reference position automatically* *Allowed: Boolean* *Default: F*
title	*Title of widget* *Allowed: String* *Default: 'Graphical chooser (AIPS++)'*
xlabel	*X axis label* *Allowed: String* *Default: 'X'*
ylabel	*Y axis label* *Allowed: String* *Default: 'Y'*
axes	*Type of axis* *Allowed: String* *Default: ''—'sky'*
plottitle	*Plot title* *Allowed: String* *Default: ''*
width	*Width of plot frame (pixels)* *Allowed: Integer* *Default: 500*
height	*Height of plot frame (pixels)* *Allowed: Integer* *Default: 500*
pad	*Padding around plot (fraction of axis length)* *Allowed: Float* *Default: 0.15*
widgetset	*Widget server to use* *Allowed: A widgetserver closure tool* *Default: dws*