Chapter 1

Utility

general use utilities not astronomy specific

include "utility.g"

Description
The utility package contains modules that support programming or use of the system, rather than astronomy directly.

1.1 aipsrcdata - Module

Aipsrc resource file layout

Description
The aipsrc file contains information for steering the process of an AIPS++ installation, site dependent variables (like default printer) andthe actual running of programs.
A template aipsrc file can be found in `code/install/aipsrc`.
aipsrc files are searched in the order:

```
~/.aipsrc
$AIPSROOT/.aipsrc
$AIPSHOST/aipsrc
$AIPSSITE/aipsrc
$AIPSARCH/aipsrc
```

It is not an error for any (or all) of these aipsrc files to be absent or empty.
The AIPSROOT etc. are derived from $AIPSPATH, an environment variable set by the `aipsinit` command (the normal way to define an AIPS++ session).
Its settings, and the values in their aipsrc files, is normally done by the site manager, and should not worry the normal user.

The general format of an aipsrc entry is:

```
keyword: value
```

where the keyword, which must begin in column 1, consists of a sequence of alphanumeric characters separated by asterisks or periods, and terminated by a colon. The value consists of everything after the last whitespace character (space or tab) following the colon. Asterisks may be used in the keyword for wildcarding, but note that in reading only the first match found is accepted, so that if the following two entries were present:

```
# Specify printer
printer*paper:       A4
printer.dp1.paper:   A3
```

and a match was requested for 'printer.dp1.paper', the value returned would be 'A4' rather than 'A3'. In fact, the second entry would never be operative. An '#' in the first column indicates a comment line.
The following categories the different groups of aipsrc variables available. The ones marked *aipsmgr* are of no importance to the normal user. Although categories are listed as `tools`, they aren't. The `tool` environemnt is just being used as a convenience for documentation.

Tools

account	AIPS++ account definitions – aipsmgr
aipsview	aipsview resources setup – user
catalog	catalog program details – user
dish	dish startup options - user
help	Help system setup – aipsmgr/(user)
help.popup	Popup help system setup – user
inhale/sneeze	Code distribution system – aipsmgr
initialization	Startup customization - user/site
logger	logger detailing values – user
measures	details for the measures operations – user
measures.comet	details for the comet data handling – user
measures.directory	details for the measures data handling – user
measures.iers	details for the IERS data handling – user
measures.jpl	details for the JPL ephemeris operations – user
printer	Postscript printer definitions – aipsmgr/user
progress	progress meter details – user
system	System resources setup – aipsmgr/user
table	Table System setup – aipsmgr/user
toolmanager	toolmanager program details – user
unused	details for unused program – aipsmgr/programmer
user	Detail user environment – user
viewer	viewer definitions

1.1.1 initialization - Tool

Package utility
Module aipsrcdata

Startup customization - user/site

Description

The variables in this group are used to determine which *Glish*files are loaded at startup. This is determined by the variables system.packages and user.initfiles

Example

```
system.packages: aips synthesis
user.initfiles: myfile.g
```

Note that packages do not end in .g, but initfiles do.
If no system.packages are specified, the aips package is assumed. Note that many sites may want to customize which packages are loaded (for example, the NFRA site manager may want to add the nfra package), and some users may want to customize the list.
Note that the user.initfiles are loaded *after* the standard package .g files. If for some reason you want to execute *Glish*code before the standard files, you can put that code in your .glishrc file.

Aipsrc Variables

system.packages	List of packages Allowed:any valid packages Default: aips
user.initfiles	List of which .g files to load on startup for the user Allowed:any .g files Default: none

---

1.1.2 aipsview - Tool

Package utility
Module aipsrcdata

aipsview resources setup – user

Description
These variables determine the available aipsview resources. They should normally reside in the user's .aipsrc.

Example

```
aipsview.numcolors:     ALL
```

Aipsrc Variables

aipsview.exe	aipsview executable Allowed:any path pointing to an aipsview executable Default: aipsview
aipsview.numcolors	available number of colours Allowed:BW ALL number Default: BW
aipsview.background	background colour Allowed:any valid colour string Default: white
aipsview.foreground	foreground colour Allowed:any valid colour string Default: black

---

1.1.3 catalog - Tool

Package utility
Module aipsrcdata

catalog program details – user

Description
These variables determine some customised catalog program features. They should normally reside in the user's .aipsrc.

Example

```
catalog.default:          screen
catalog.edit.ascii:       xterm -e vi
```

Note that *Glish* has no tty available, so an editor like vi cannot be used directly. An xterm command is also needed as shown in the example above.

Aipsrc Variables

catalog.default	output medium to use Allowed:gui or screen Default: ”
catalog.confirm	Confirm operations (always, only for directories, never)? Allowed:yes, directory or no Default: yes
catalog.tablesizeoption	How to show image/table sizes Allowed:no, bytes, or shape Default: no
catalog.alwaysshowdir	Always show directories when selecting specific type? Allowed:T or F Default: T
catalog.sortbytype	Show in order of type instead of name Allowed:T or F Default: F
catalog.vscrollbar	Where to put the vertical scrollbar Allowed:right or left Default: right
catalog.view.PostScript	Viewer for PostScript files Allowed:Suitable program e.g. ghostview, pageview Default: ghostview
catalog.view.Graphics	Viewer for graphics files Allowed:Suitable program e.g. xv Default: xv
catalog.view.image	Viewer for AIPS++ images Allowed:Suitable program Default: viewer
catalog.edit.ascii	Editor for ascii files Allowed:Editor not needing a tty e.g. emacs or xterm -e vi Default: $EDITOR
catalog.edit.Glish	Editor for *Glish* files Allowed:Editor not needing a tty e.g. emacs or xterm -e vi Default: catalog.edit.ascii
catalog.view.ascii	Viewer for ascii files Allowed:Program not needing a tty e.g. emacs or xterm -e vi Default: catalog.edit.ascii
catalog.view.Glish	Viewer for *Glish* files Allowed:Program not needing a tty e.g. emacs or xterm -e vi Default: catalog.edit.Glish

1.1.4 toolmanager - Tool

Package utility
Module aipsrcdata

toolmanager program details – user

Description
These variables determine some customised toolmanager program features. They should normally reside in the user's .aipsrc.

Example

```
toolmanager.default:     gui
```

Aipsrc Variables

toolmanager.default	Output medium to use Allowed:gui or cli Default: gui
toolmanager.refresh	Default refresh interval (s) Allowed:Integer Default: none

---

1.1.5 progress - Tool

Package utility
Module aipsrcdata

progress meter details – user

Description
These variables determine some customised progress meter details. They should normally reside in the user's .aipsrc.

Example

```
progress.show:     F
```

Aipsrc Variables

progress.show	Show progress meters? Allowed:T or F Default: T

1.1.6 logger - Tool

Package utility
Module aipsrcdata

logger detailing values – user

Description
The variables in this group steer where logging information has to go and control the size of the logger gui. Note that other variables (e.g. in the system/user group) could influence the display of data. They will normally be set in the users aipsrc.

Example

```
logger.default:         gui
logger.timewidth:       8
logger.prioritywidth:   1
logger.messagewidth:    40
logger.height:          8
logger.guishow:         priority,message,time
logger.showbuttons:     F
```

specifies that logging gui should be started automatically. The size of the gui is rather small.

Aipsrc Variables

logger.file	Log file name Allowed:any valid file name without a path, which will be written in 'user.aipsdir' ('none' means no logging) Default: aips++.log
logger.default	Where to write log messages Allowed:gui or screen Default: screen
logger.glish	What to log from *Glish* Allowed:input, output, both or none Default: input
logger.height	Initial number of lines in logger gui Allowed:A number Default: 8
logger.timewidth	Initial width of TIME column in logger gui Allowed:A number Default: 20
logger.prioritywidth	Initial width of PRIORITY column in logger gui Allowed:A number Default: 6
logger.messagewidth	Initial width of MESSAGE column in logger gui Allowed:A number Default: 75
logger.originwidth	Initial width of ORIGIN column in logger gui Allowed:A number Default: 25
logger.guishow	Which columns to show in gui Allowed:time, priority, message and/or origin Default: time,priority,message
logger.showbuttons	Show buttons in logger gui (F makes it smaller) Allowed:T or F Default: T
logger.autoscroll	Always scroll to the end when a message gets added? Allowed:T or F Default: T
logger.background	Background color of logger gui Allowed:String Default: xing

---

1.1.7 measures - Tool

Package utility
Module aipsrcdata

details for the measures operations – user

Description
The variables in this group describe non-standard operation of the measures conversion programs. Normal practice is that the nutation, aberration and the position of the sun for the purpose of light-bending corrections, are calculated with the aid of an analytical series. To limit calculation times in loops, the calculations are linearly interpolated over a (defined) period. This period can be defined with the *d_interval* variables. The nutation calculation can be improved by using the IERS tables; while all calculations can be also be done using the JPL DE200 or DE405 tables. They also steer the selection of the IAU1984 or IAU2000 precession/nutation model; and the use of high or low precision nutation series (uas or mas).

Example

```
measures.default:                  gui
measures.precession.d_interval:    0
```

specifies that a measures GUI is started up automatically, and do full calculations on precession always.

Aipsrc Variables

measures.default	specify user interface medium Allowed:gui or screen Default: screen
measures.iau2000.b_use	use the IAU2000 precession/nutation model Allowed:true or false Default: true
measures.iau2000.b_use2000a	if the IAU2000 precession/nutation model is used, use the high precision nutation Allowed:true or false Default: false
measures.precession.d_interval	interval in days over which linear interpolation of precession calculation is appropiate Allowed:number of days Default: 0.1
measures.nutation.d_interval	interval in days over which linear interpolation of nutation calculation is appropiate Allowed:number of days Default: 0.04
measures.nutation.b_useiers	use the IERS Earth orientation parameters tables to calculate nutation Allowed:true or false Default: false
measures.nutation.b_usejpl	use the JPL DE database (use measures.jpl.ephemeris to specify which one) to calculate nutation Allowed:true or false Default: false
measures.aberration.d_interval	interval in days over which linear interpolation of aberration calculation is appropiate Allowed:number of days Default: 0.04
measures.aberration.b_usejpl	use the JPL DE database (use measures.jpl.ephemeris to specify which one) to calculate aberration Allowed:true or false Default: false
measures.solarpos.d_interval	interval in days over which linear interpolation of solar position calculation is appropiate Allowed:number of days Default: 0.04
measures.solarpos.b_usejpl	use the JPL DE database (use measures.jpl.ephemeris to specify which one) to calculate solar position Allowed:true or false Default: false

1.1.8 measures.directory - Tool

Package utility
Module aipsrcdata

details for the measures data handling – user

Description
The variables in this group describe the non-standard directory lookup for the various tables with e.g. observatories, spectral lines, sources. Default lookup for directories is

```
- ./name
- ./data/name
- $AIPSHOME/data/ephemerides/name ($AIPSHOME is normally ~/aips++)
- $AIPSROOT/data/ephemerides/name ($AIPSROOT is first field of $AIPSPATH)
- $AIPSHOME/data/geodetic/name
- $AIPSROOT/data/geodetic/name
and till at least 1 Jan 2001:
- $AIPSHOME/data/aips/Measures/name
- $AIPSROOT/data/aips/Measures/name
- $AIPSHOME/code/trial/apps/measures
- $AIPSROOT/code/trial/apps/measures
```

Example

```
measures.line.directory:     ~/aips++
```

Use the Lines spectral line table as given in the indicated directory.

Aipsrc Variables

measures.line.directory	directory for the Lines spectral line table Allowed:valid directory Default: see description
measures.observatory.directory	directory for the Observatories table Allowed:valid directory Default: see description
measures.source.directory	directory for the Sources table Allowed:valid directory Default: see description
measures.igrf.directory	directory for the IGRF Earth magnetic field model table Allowed:valid directory Default: see description

1.1.9 measures.comet - Tool

Package utility
Module aipsrcdata

details for the comet data handling – user

Description
The variables in this group describe the non-standard directory lookup for the various tables with, in principle, comet orbits. However, any solar system body's data maybe described. Directory lookup is as described in the measures.directory data.

Example

```
measures.comet.file:     VGEO
```

Use the comet table as given by the file name.

Aipsrc Variables

measures.comet.directory	directory for the comet direction table Allowed:valid directory Default: see description
measures.comet.file	table name for the comet table to be used in the default constructor Allowed:valid relative or absolute path

---

1.1.10 measures.iers - Tool

Package utility
Module aipsrcdata

details for the IERS data handling – user

Description
The variables in this group describe non-standard operation of the use of the IERS Earth Orientation parameters. Default lookup for directories is

```
- ./name
```

```
- ./data/name
- $AIPSHOME/data/ephemerides/name ($AIPSHOME is normally ~/aips++)
- $AIPSROOT/data/ephemerides/name ($AIPSROOT is first field of $AIPSPATH)
- $AIPSHOME/data/geodetic/name
- $AIPSROOT/data/geodetic/name
and at least till 1 Jan 2001:
- $AIPSHOME/data/aips/Measures/name
- $AIPSROOT/data/aips/Measures/name
- $AIPSHOME/code/trial/apps/measures
- $AIPSROOT/code/trial/apps/measures
```

Example

```
measures.ierspredict.directory:    ~/aips++
```

Use the IERS prediction tables from the indicated directory

Aipsrc Variables

measures.ierseop97.directory	directory for the IERSeop97 table Allowed:valid directory Default: see description
measures.ierspredict.directory	directory for the IERSpredict table Allowed:valid directory Default: see description
measures.tai_utc.directory	directory for the TAI_UTC leap second table Allowed:valid directory Default: see description
measures.measiers.b_notable	do not use the IERSeop97 or IERSpredict tables Allowed:true or false Default: false
measures.measiers.b_forcepredict	use always the IERSpredict table Allowed:true or false Default: false
measures.measiers.d_predicttime	use always the IERSpredict table if coordinate conversion time is less than given number of days ago Allowed:number of days Default: 5

1.1.11 measures.jpl - Tool

Package **utility**
Module **aipsrcdata**

details for the JPL ephemeris operations – user

Description
The variables in this group describe non-standard operation of the use of the JPL solar system ephemerides. Default lookup for directories is

```
- ./name
- ./data/name
- $AIPSHOME/data/ephemerides/name ($AIPSHOME is normally ~/aips++)
- $AIPSROOT/data/ephemerides/name ($AIPSROOT is first field of $AIPSPATH)
- $AIPSHOME/data/geodetic/name
- $AIPSROOT/data/geodetic/name
and at least till 1 Jan 2001:
- $AIPSHOME/data/aips/Measures/name
- $AIPSROOT/data/aips/Measures/name
- $AIPSHOME/code/trial/apps/measures
- $AIPSROOT/code/trial/apps/measures
```

Example

```
measures.jpl.ephemeris:     DE405
```

Use the DE405 ephemeris rather than DE200

Aipsrc Variables

measures.jpl.ephemeris	specify JPL ephemeris Allowed:DE200 or DE405 Default: DE200
measures.DE200.directory	directory for the DE200 table Allowed:valid directory Default: see description
measures.DE405.directory	directory for the DE405 table Allowed:valid directory Default: see description

---

1.1.12 help.popup - Tool

Package utility
Module aipsrcdata

Popup help system setup – user

Description
The variables in this group determine the default action of the popup help system at the startup of AIPS++. They are normally set in the user's .aipsrc.

Example

```
help.popup.type:  mb3long
```

Use the mouse-button-3 long popup action, rather than the default popup action.

Aipsrc Variables

help.popup.type	in	the default action for the popup help system Allowed:coded value: 'none' 'both' 'mb3long' or 'hoverlong' Default: both

---

1.1.13 user - Tool
Package utility
Module aipsrcdata

Detail user environment – user

Description
The variables in this group define the user working environment. They will normally be defined in the user's .aipsrc.
The `user.directories.work` variable is used to determine which directories scratch files are written into. It can consist of 1 or more directories. If more than one directory is specified, AIPS++ attempts to spread the scratch files over the various listed directories. If this variable is not set, then "." (the current working directory) is used if it is writable, otherwise "/tmp" is used.

Example

```
user.aipsdir:            /my_data/aips++
user.directories.work:   ~/scr ~/aips++/work
user.display.memory: true
```

The `user.prestart` variable can be ignored by most users. It defines which clients are started asynchronously on start of AIPS++. This saves time but risks too many clients being run. The default choice is misc, timer, quanta. These clients are typically needed whenever the `aips++` script is used to start AIPS++. If you often start using *e.g.*:

```
glish -l imager.g
```

then you may wish to prevent quanta from starting:

```
user.prestart:            timer quanta
```

To prevent any asynchronous starting:

```
user.prestart:            none
```

Aipsrc Variables

user.aipsdir	default user's AIPS++ base directory Allowed:valid directory name Default: /aips++
user.directories.work	list of directories to put scratch files Allowed:string Default: "." or "/tmp"
user.dowait	Wait for asynchronous functions to finish? Allowed:falsor true Default: false
user.aipsrc.edit.keep	the number of edits of an aipsrc keyword that are kept as history when saving automatically to the users .aipsrc Allowed:integer Default: 5
user.display.memory	display memory usage in a GUI barchart? Allowed:false or true Default: false
user.prestart	Pre-start these clients Allowed:String Default: misc timer quanta

---

1.1.14 table - Tool

Package utility
Module aipsrcdata

Table System setup – aipsmgr/user

Description
These variables determine the format of the data in the table files. They also control the behaviour of unlocking in glish clients when AutoLocking mode is used on a table. They determine how often an autolock on a table is automatically released.

Example

```
table.endianformat:                          local
table.relinquish.reqautolocks.interval:      2
table.relinquish.allautolocks.interval:      120
```

specifies that table data are stored in the local endian format. Autolocks on tables needed by another process are released every 2 seconds. Every 120 seconds all autolocks are released.

Aipsrc Variables

table.relinquish.reqautolocks.interval	nr of seconds to wait before relinquishing autolocks requested in another process Allowed:float Default: 5
table.relinquish.allautolocks.interval	nr of seconds to wait before relinquishing all autolocks Allowed:float Default: 60
table.endianformat	endian format to be used for storing data in new tables Allowed:big,little,local Default: big

---

1.1.15 system - Tool

Package utility
Module aipsrcdata

System resources setup – aipsmgr/user

Description
These variables determine the available system resources. They should

normally reside in the $AIPSHOST/aipsrc (resources) or in the $AIPSSITE/aipsrc (time).

Example

```
system.resources.numcpu:      2
system.resources.memory:      16
system.time.tzoffset:         +10:30
```

specifies that the local time zone is ten and a half hours ahead of UTC.

Aipsrc Variables

system.resources.numcpu	number of cpu's on machine Allowed:number Default: 1
system.resources.memory	amount of memory on machine in Mb Allowed:number Default: 64
system.time.tzoffset	time zone offset Allowed:±hh mm Default: 00:00 (soon system defined)
system.aipscenter	Where to send problems/questions, same as system.aipscentre Allowed:namerica, australia, or europe Default: namerica
system.aipscentre	Where to send problems/questions, same as system.aipscenter Allowed:namerica, australia, or europe Default: namerica
system.local.contact	Whom to send local questions/problems Allowed:any valid email address for an AIPS++ expert Default: aips2-help
system.local.registered	Which versions of AIPS++ have been registered Allowed:linux_egcs, sun4sol_egcs, sgi_ntv, etc... Default: none

---

1.1.16 printer - Tool

Package utility
Module aipsrcdata

Postscript printer definitions – aipsmgr/user

Description
The variables in this group define the AIPS++ printer definition variables. They will normally be defined in $AIPSSITE/aipsrc.

Example

```
printer*default:         EPP001
printer.EPP003.paper:    letter
printer*paper:           A4
```

Aipsrc Variables

printer.default	Print queue Allowed:name of a printer queue Default: DEFINE_ME
printer.< *printqueue* > .paper	paper size on print queue Allowed:A3, A4 or letter Default: A4

1.1.17 help - Tool

Package utility
Module aipsrcdata

Help system setup – aipsmgr/(user)

Description
These variables determine the setup of the help file system. Normally set by the AIPS++ system manager in $AIPSROOT/.aipsrc. The browser and server could be of interest to user.

Example

```
help.directory:    /aips++/sun4sol_gnu/doc/help
help.systemfile:   aips2HelpTable
help.keywordfile:  aips2HelpKeywords
```

Aipsrc Variables

help.directory	directory for the Refman help system Allowed: valid directory name Default: none
help.systemfile	name of the Table directory with the help system Allowed: valid directory name in help.directory Default: none
help.keywordfile	name of the help system keyword Table Allowed: valid directory name in help.directory Default: none
help.browser	browser to use for help display Allowed: valid browser command Default: netscape
help.server	server to obtain help information from Allowed: valid server, e.g. http://www.atnf.csiro.au, but due to probably mixing of local file names with external server may not work Default: file://localhost

---

1.1.18 unused - Tool
Package utility
Module aipsrcdata

details for unused program – aipsmgr/programmer

Description
These variables determine alternatives for some system programs used. The specify a path to the gnm (or nm) program and the path or name of the gcc name demangler.

Example

```
unused.file.nm:     nm
```

use the nm program to find global names.

Aipsrc Variables

unused.file.nm	path to gnm or nm program Allowed:path to a valid nm program Default: gnm
unused.file.gfilt	path of gcc name demangler Allowed:path name to gcc name demangler Default: g++filt

---

1.1.19 inhale/sneeze - Tool

Package utility
Module aipsrcdata

Code distribution system – aipsmgr

Description

These variables determine the behaviour of the code distribution system. They should only be set by the AIPS++ system manager, and are normally defined in $AIPSROOT/.aipsrc.

Example

```
inhale.sneeze.hosts:          cetus:gnu raptor:ntv
sneeze.cetus.ntv.logfile:     /aips++/sun4sol_gnu/sneeze.log
inhale.sneeze.*.rcmd:         rsh
```

Determine the machines (and compilers) on which to generate new system.

Aipsrc Variables

inhale.base.code.preserve	Preserve old code when new base base release installed Allowed:true or false Default: true
inhale.base.slave.preserve	Preserve code in slave after base release Allowed:false or true Default: false
inhale.sneeze.hosts	hosts on which to inhaled system. Each host can have colon separated list of extensions (_ for no extension) Allowed:valid host name with :ext $: ext..$ Default: none
inhale.sneeze.$< host >$.rcmd	Remote command to start sneeze on host Allowed:rsh or commands like ssh Default: rsh
sneeze.host.aipsext.logfile	name of sneeze log file (replace host.aipsext with your host and aipsext) Allowed:valid file name Default: none
sneeze.host.aipsext.logmail	address to mail the sneeze logfile to (replace host.aipsext with your host and aipsext) Allowed:valid mail address Default: AIPS++inhalenrao.edu
sneeze.base.docs.preserve	Preserve old documentation when new base release installed Allowed:true or false Default: true
sneeze.base.$< arch >$.preserve	Preserve old system when new base release installed Allowed:true or false Default: true

---

1.1.20 account - Tool

Package utility
Module aipsrcdata

AIPS++ account definitions – aipsmgr

Description
The variables in this group have to be defined; they have no defaults. The values are given in the order 'user.group'. They will normally be defined in

$AIPSARCH/aipsrc.

Example

```
account.user: aips2usr.aips2usr
```

Aipsrc Variables

account.manager	AIPS++ account manager Allowed:e.g. aips2mgr.aipsmgr Default: none
account.programmer	AIPS++ programmer Allowed:e.g. aips2prg.aips2pgr Default: none
account.user	AIPS++ user Allowed:e.g. aips2usr.aips2usr Default: none

1.1.21 dish - Tool

Package utility
Module aipsrcdata

dish startup options - user

Description
These variables determine how the dish tool behaves on startup.

Example

```
dish.statefile: $HOME/aips++/dishstate/mystatefile
dish.restorestate: T
```

Aipsrc Variables

dish.restorestate	Restore state on startup? Allowed:T or F Default: T
dish.statefile	DISH state file to use on startup Allowed:any valid file name Default: $HOME/dishstate/default

1.1.22 viewer - Tool

Package utility

Module aipsrcdata

viewer definitions

Description

Set up various defaults for the viewer tool. This can be used to define the color of tools such as the Rectangle Zoomer, so that they are drawn in a color visible on your default colormap, e.g.

Example

```
display.controls.color: yellow
display.colormaps.defaultcolormap: RGB 1
```

Note that some are dependent on others. You can't select a defaultcolormap from a usertable if the usertable isn't defined.

Aipsrc Variables

display.axislabels	Turn on display of axes and labels? Allowed:on or off Default: off for images, on for ms
display.axislabels.charsize	Character size for axis labels (pgplot units) Allowed:0.1 – 4.0 Default: 1.2
display.axislabels.linewidth	Line width for axis labels (pgplot units) Allowed:0.0 – 5.0 Default: 1.4
display.axislabels.world	Show world (on) or pixel (off) coordinates Allowed:on or off Default: on
display.controls.color	The outline color of the drawing tools (e.g. zoom rectangle) Allowed:an X color name (string) Default: green
display.controls.linewidth	The width in pixel of the drawing tools Allowed:integer Default: 1
display.controls.doubleclickinterval	maximum time delay in seconds between two clicks (double click) Allowed:float Default: 0.5
display.colormaps.defaultcolormap	The default colormap for raster display Allowed:a colormap name (string) Default: Greyscale 1
display.colormaps.usertable	the full path to an aips++ table containing colormap definitions Allowed:any valid file name (full path)
display.colormaps.usedefault	Use the default definitions as well as the user table? Allowed:yes or no Default: no
display.contour.color	The dafult color for contours Allowed:an X color name (string) Default: foreground
display.cachesize	maximum number of views which should be cached per Viewerdisplaydata Allowed:integer Default: 256
viewer.colorscheme	The backgound color of viewerdisplaypanel tools Allowed:screen or paper Default: screen