frame	Reference frame Allowed String Default LSR	
nchan	No. of velocity channels Allowed Int Default 1	
mstart	Start velocity (e.g. '20km/s') Allowed Quantity Default '0km/s'	
mstep	Step velocity (e.g. '20km/s') Allowed Quantity Default '0km/s'	

Returns
freqsel data item
or fail

Description

This function creates a freqsel data item representing selection by velocity.

Example

```
myfq:= freqselmanager();
item2 := myfq.velocity(nchan=1, mstart='10km/s', mstep='5km/s');
```

Create a freqsel data item item2 representing LSR velocity selection covering the range 10-15 km/s.

1.6.3 selectionmanager - Tool

Package synthesis
Module map

Data manager for MS selection data items
include "selectmanager.g"

Constructors

selectionmanager	Create a selection data manager

Functions

selection	Create a selection data item

Overview of selectionmanager tool functions

The selection data manager allows the creation of data items containing MS selection conditions.

selectionmanager - Constructor

Package	synthesis
Module	map
Tool	selectionmanager

Create a selection data manager

Synopsis

selectionmanager()

Arguments

Returns

selectionmanager tool
or fail

Description

Constructs a selection data manager, which can be used to create selection data items. The default selection data manager is called dsm, and is created when the the file selectmanager.g is included.

Example

```
mysm := selectionmanager()
```

This creates a selection manager called mysm.

---

selectionmanager.selection - Function

Package	synthesis
Module	map
Tool	selectionmanager

Create a selection data item

Synopsis
selection(freqsel, fieldnames, spwids, uvrange, msselect)

Arguments

freqsel	Frequency/velocity selection AllowedFreqsel Defaultunset
fieldnames	Selected field names AllowedVector of Strings Defaultunset
spwids	Selected spectral window id.'s AllowedVector of Ints Defaultunset
uvrange	UV range (in klambda) (e.g. [0, 50]) AllowedVector of Doubles Default0
msselect	General MS selection AllowedString Defaultunset

Returns
selection data item
or fail

Description

This function creates a selection data item from set of selection criteria. The individual selection criteria are combined by a logical AND to form the total selection.