Package	synthesis
Module	map
Tool	maskmanager

Create a mask data item as defined by regions from thresholding an image

Synopsis

thresholdmask(image, threshold)

Arguments

image	name of image Allowed String Default ''
threshold	value above which to mask Allowed float Default 0.0

Returns

mask data item

or fail

Description

This function creates a mask data item from regions of an image which lies above a threshold

Example

```
mymm:= maskmanager();
item6 := mymm.thresholdmask(image='3C273XC1.clean', threshold='2');
```

Create a mask data item item5 which represents regions which have flux densities larger than 2 Jy.

1.6.7 calibrationmanager - Tool

Package	synthesis
Module	map

Data manager for calibration data items
include "calmanager.g"

Constructors

calibrationmanager	Create a calibration data manager

Functions

general	Create a general calibration data item
vp	Create a voltage pattern calibration data item

Overview of calibrationmanager tool functions

A calibration data item is a data item representing different forms of applied calibration. The calibration data manager allows the creation of calibration data items of the following type:

- general - a calibration data item of general type, formed by specifying a calibration table name along with general selection and interpolation parameters.
- vp - a voltage pattern calibration data item, applied in the image plane, and formed from a default beam response or from a specified voltage pattern table.

calibrationmanager - Constructor

Package	synthesis
Module	map
Tool	calibrationmanager

Create a calibration data manager

Synopsis
calibrationmanager()

Arguments

Returns
calibrationmanager tool

or fail

Description

Constructs a calibration data manager, which can be used to create calibration data items of the enumerated types. The default calibration data manager is called dcm, and is created when the the file calibrationmanager.g is included.

Example

```
mycm := calibrationmanager()
```

This creates a calibration manager called mycm.

---

calibrationmanager.general - Function

Package	synthesis
Module	map
Tool	calibrationmanager

Create a general calibration data item

Synopsis
general(t, table, select)

Arguments

t	Interpolation interval (sec) Allowed Float Default 0.0
table	Name of calibration table Allowed String
select	Calibration table TaQL selection Allowed String

Returns
calibration data item
or fail

Description

This function creates a calibration data item from a specified calibration table name, associated TaQL selection string, and an interpolation interval (set to zero to use the existing time sampling in the calibration table).

Example

```
mycm:= calibrationmanager();
item1:= mycm.general(t=0.0, table='cal1.gcal', select='FIELD_NAME=="3C84"')
```

Create a calibration data item item1 representing calibration by the table "cal1.gcal", selected only for solutions obtained on 3C84, and interpolated at the current calibration time sampling.

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calibrationmanager.vp - Function

Package	synthesis
Module	map
Tool	calibrationmanager

Create a voltage pattern calibration data item

Synopsis
vp(usedefaultvp, vptable, dosquint, parangleinc)

Arguments