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**Package multidrizzle**

**Class Multidrizzle**

- (optionally) edit all input parameter values with Traits-based GUI

- build parameters necessary for combining the images

- process the images through the steps which were turned on

where each parameter controlled (a) 0.14 (whether) 41.7809 (a) 10.4584 (processing)

**setMedianPars(self)**

Set the special median parameters which need to be parsed out of the original input parameters.

1.4.1. Class Variables

Name	Description
blot_keys	<b>Value:</b> ['blot_interp', 'blot_sinscl'] ( <b>type</b> =list)
driz_keys	<b>Value:</b> ['refimage', 'group', 'ra', 'dec', 'build']

## 2 Module multidrizzle.acs









## 4 Module multidrizzle.driz\_



## 6 Module multidrizzle.input\_image

### 6.1 Variables

Name	Description
<code>__version__</code>	Value: '1.1.0' (type=str)
<code>DEFAULT_SEPARATOR</code>	Value: '_' (type=str)

### 6.2 Class InputImage

Known Subclasses: ACSInputImage, NICMOSInputImage, STISInputImage, WFPC2InputImage

The InputImage class is the base class for all of the v types of images

#### 6.2.1 Methods

<code>__init__(self, input, dqname, platescale, memmap=1)</code>
<code>computeSky(self, skypars)</code> Compute the sky v based upon the sci array of the chip
<code>doUnitConversions(self)</code> Convert the sci extensions pixels to electrons

getRootname(self, name)

getSubtractedSky(self)

runDrizCR(self, blotted\_array, mask\_array, drizcrpars, skypars, corr\_ile, cr\_ile)

Run 'deriv' and 'driz.cr' to creaTj 22.89.3424 0 Td (cosmic-ra)Tj 40.7073 0 Td (y)Tj 8.58027 0 Td (mask)Tj 25.765

**Module m**



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remo

## 8 Module multidrizzle.mdrizpars

### 8.1 Functions

cleanBlank(value)

cleanInt(value)

cleanNaN(value)

ndFormat(format)

toBoolean(flag)

### 8.2 Class MDrizPars

pydrizzle.traits102.traits.HasTraits

MDrizPars

This class defines the default values for all MultiDrizzle parameters, and provides the mechanisms for updating them from any of the available interfaces: EPAR, MDRIZTAB, or directly from the Python interface.

It defines a dictionary containing all the input parameters for MultiDrizzle. The MultiDrizzle class inputs all but the threshold and input (required) files.

Initialize this class which then updates the default values it already has upon initialization. It can perform parameter name checking in case of an MDRIZTAB and pull the values from that table, then update the dictionary which would then serve as the primary attribute which would be used by the MultiDrizzle class.

---

**getParList**(self, keylist, prefix=None)

---

Returns a dictionary of values used for setting the parameters listed in keylist.  
If a prefix is specified, then remove

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		Name	Description
-		enum_kernel	<b>Value:</b> <pydrizzle.traits102.traits.Trait instance at 0-x405fa7ec

## 9 Module multidrizzle.mdzhandler

### 9.1 Functions

<code>getMultidrizzleParameters(~les)</code>
Gets entry in MDRIZTAB where task parameters live. This method returns a record array mapping the selected row.

### 9.2 Variables

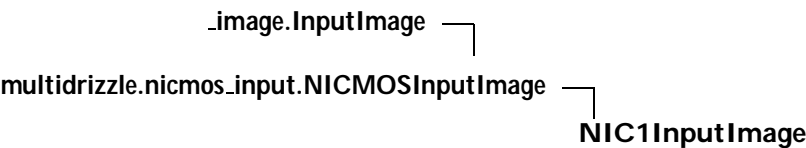
## 10 Module multidrizzle.minmed

### 10.1 Variables

Name	Description
<code>__version__</code>	Value: '0.2.0' (typ

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11.2.1 Methods

```
__init__(self, input, dqname, platescale, memmap=1)
Overrides: multidrizzle.nicmos.input.NICMOSInputImage.__init__
```

Inherited from InputImage: computeSky, getComputedSky, getCRbit, getE®Gain, getExpTime, getGain, getInstrParameter, getReadNoise, getreferencesky, getRo

### 11.3.2 Class Variables





## 12 Module multidrizzle.parseVM

### 12.1 Functions

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**parseVM(inputlist)**

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FUNCTION: parseVM

PURPOSE : the parseVM function is used to take the Python list generated by the parseinput function and split each entry on white space. If there is more then one entry per line, we assume that the second entry is the name of an inbn 15e3 36.C19738 3





## 14 Module multidrizzle.quickDeriv

### 14.1 Functions

<b>qderiv(array)</b>
Take the absolute derivate of an image in memory.

### 14.2 Variables

Name	Description
__version	Value: '0.1.0' (type=str)



## 16 Module multidrizzle.stis assoc support

### 16.1 Functions

#### **parseSTIS(input`le)**

---

FUNCTION: parseSTIS

PURPOSE : the parse STIS function is used to convert STIS association files to single exposure STIS files. The primary header contains the association

Module multirizzle.stis\_input

Class



**Inherited from InpuImage:** computeSky, getComputedSky, getCRbit, getE<sup>0</sup>Gain, getExpTime, getGain, getInstrParameter, getReadNoise, getreferencesky, getRootname, getSubtracedSky, runDrizCR, set-ComputedSky, setSubtracedSky

**Module m**





### 18.5.2 Class Variables

Name	Description
Inherited re e5.210 0 0 10 0 0 cm B586ro94 0 27.29Tm 2InputImage	

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