



AHHELP for CIAO 3.4

## pix\_tdet\_to\_chip

Context: [pixlib](#)

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## Synopsis

Convert from the Tiled Detector (TDET) to Chip coordinate system.

## Syntax

```
( Integer_Type chip_id, Array_Type pos ) = pix_tdet_to_chip(
Double_Type x, Double_Type y )
```

## Description

This routine converts a position in the Tiled Detector (TDET) coordinate system to the matching position in the Chip coordinate system, using the current settings of the pixlib module. The function arguments are the position in the TDET coordinate system. Two values are returned: the first one is the chip ID (the `ccd_id` value for ACIS and `chip_id` value for HRC data) and the second (`pos`) is a two–element array which gives the chip coordinates in pixels.

## Example

```
chips> require( "pixlib" )
chips> pix_init_pixlib
chips> ( id, chip ) = pix_tdet_to_chip( 4620, 3573 )
chips> print( id )
3
chips> print( chip )
512
512
```

Using the default settings of the pixlib module (i.e. the detector is ACIS with the aimpoint on ACIS–I1), we find that the location (4620, 3573) in the TDET system corresponds to the chip position (512,512) on ACIS–3 (i.e. ACIS–I3)

## Bugs

See the [bugs page for the pixlib library](#) on the CIAO website for an up–to–date listing of known bugs.

## See Also

*modules*

[pixlib](#)

*pixlib*

[pix\\_chip to fpc](#), [pix\\_chip to gdp](#), [pix\\_chip to tdet](#), [pix\\_fpc to chip](#), [pix\\_fpc to gdp](#),  
[pix\\_fpc to msc](#)

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URL:  
[http://cxc.harvard.edu/ciao3.4/pix\\_tdet\\_to\\_chip.html](http://cxc.harvard.edu/ciao3.4/pix_tdet_to_chip.html)

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