



AHELP for CIAO 3.4

pix_chip_to_tdet

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Synopsis

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

Syntax

```
Array_Type pix_chip_to_tdet( Integer_Type chip_id, Double_Type x,  
Double_Type y )
```

Description

This routine converts a position in the Chip coordinate system to the matching position in the Tiled Detector (TDET) coordinate system, using the current settings of the `pixlib` module. The inputs are chip ID (the `ccd_id` value for ACIS and `chip_id` value for HRC data) and the chip location (x,y) in pixels. The return value is a two-element array which gives the TDET coordinates in pixels.

Example

```
chips> require( "pixlib" )  
chips> pix_init_pixlib  
chips> tdet = pix_chip_to_tdet( 3, 512, 512 )  
chips> print( tdet )  
4620  
3573
```

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

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](#)[pix_chip_to_tdet](#)

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pixlib

[pix_chip_to_fpc](#), [pix_chip_to_gdp](#), [pix_fpc_to_chip](#), [pix_fpc_to_gdp](#), [pix_fpc_to_msc](#),
[pix_tdet_to_chip](#)

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URL:
http://cxc.harvard.edu/ciao3.4/pix_chip_to_tdet.html
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