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 AHELP for CIAO 3.4

## pix\_fpc\_to\_chip

Context: [pixlib](#)

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### Synopsis

Convert from the Focal Plane (FPC) to Chip coordinate system.

### Syntax

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

### Description

This routine converts a position in the Focal Plane coordinate (FPC) system to the matching position in the Chip coordinate system, using the current settings of the `pixlib` module. The FPC system corresponds to the ( `DETX`, `DETY` ) columns of a Chandra event file.

The inputs (x,y) are the position in the FPC 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_fpc_to_chip( 4580, 4730 )
chips> print( id )
3
chips> print( chip )
512.423
508.93
```

Using the default settings of the `pixlib` module (i.e. the detector is ACIS with the aimpoint on ACIS-I1), we find that the FPC location (4580, 4730) corresponds to the chip position (512.423, 508.93) 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 gdp](#), [pix\\_fpc to msc](#),  
[pix\\_tdet to chip](#)

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

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