



 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
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