URL: http://cxc.harvard.edu/ciao3.4/pix_chip_to_fpc.html
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AHELP for CIAO 3.4

pix_chip_to_fpc

Context: pixlib

Jump to: Description Example Bugs See Also

Synopsis

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

Syntax

```
Array_Type pix_chip_to_fpc( 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 Focal Plane coordinate (FPC) 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 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 FPC coordinates in pixels.

Example

```
chips> require( "pixlib" )
chips> pix_init_pixlib
chips> fpc = pix_chip_to_fpc( 3, 512, 512 )
chips> print( fpc )
4576.94
4730.43
```

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 (4576.94, 4730.43) in the focal−plane 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

pixlib

pix_chip_to_gdp, pix_chip_to_tdet, pix_fpc_to_chip, pix_fpc_to_gdp, pix_fpc_to_msc, pix_tdet_to_chip

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