

# xtropicaliscdf

May 15, 2024

---

i2xy

*Convert (x,y)-coordinates to single-number indices and back.*

---

## Description

Convert (x,y)-coordinates on the chip (and in the CEL file) to the single-number indices used in AffyBatch and CDF environment, and back.

## Usage

```
i2xy(i)  
xy2i(x,y)
```

## Arguments

x	numeric. x-coordinate (from 1 to 1164)
y	numeric. y-coordinate (from 1 to 1164)
i	numeric. single-number index (from 1 to 1354896)

## Details

Type i2xy and xy2i at the R prompt to view the function definitions.

## See Also

[xtropicaliscdf](#)

## Examples

```
xy2i(5,5)  
i = 1:(1164*1164)  
coord = i2xy(i)  
j = xy2i(coord[, "x"], coord[, "y"])  
stopifnot(all(i==j))  
range(coord[, "x"])  
range(coord[, "y"])
```

---

<code>xtropicaliscdf</code>	<i>xtropicaliscdf</i>
-----------------------------	-----------------------

---

**Description**

environment describing the CDF file

---

<code>xtropicalisdim</code>	<i>xtropicalisdim</i>
-----------------------------	-----------------------

---

**Description**

environment describing the CDF dimensions

# Index

## \* datasets

i2xy, 1

xtropicaliscdf, 2

xtropicalisdim, 2

i2xy, 1

xtropicaliscdf, 1, 2

xtropicalisdim, 2

xy2i (i2xy), 1