

xtropicaliscdf

October 15, 2025

i2xy	<i>Convert (x,y)-coordinates to single-number indices and back.</i>
------	---

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](#)