

# rtu34cdf

July 24, 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 218)          |
| y | numeric. y-coordinate (from 1 to 218)          |
| i | numeric. single-number index (from 1 to 47524) |

## Details

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

## See Also

[rtu34cdf](#)

## Examples

```
xy2i(5,5)
i      = 1:(218*218)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

---

|          |                 |
|----------|-----------------|
| rtu34cdf | <i>rtu34cdf</i> |
|----------|-----------------|

---

**Description**

environment describing the CDF file

---

|          |                 |
|----------|-----------------|
| rtu34dim | <i>rtu34dim</i> |
|----------|-----------------|

---

**Description**

environment describing the CDF dimensions

# Index

## \* datasets

- i2xy, 1
- rtu34cdf, 2
- rtu34dim, 2

i2xy, 1

rtu34cdf, 1, 2

rtu34dim, 2

xy2i (i2xy), 1