

# rtu34cdf

October 17, 2011

---

`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

<code>x</code>	numeric. x-coordinate (from 1 to 218)
<code>y</code>	numeric. y-coordinate (from 1 to 218)
<code>i</code>	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

*rtu34cdf*

---

**Description**

environment describing the CDF file

---

rtu34dim

*rtu34dim*

---

**Description**

environment describing the CDF dimensions

# Index

## \*Topic **datasets**

[i2xy](#), [1](#)

[rtu34cdf](#), [2](#)

[rtu34dim](#), [2](#)

[i2xy](#), [1](#)

[rtu34cdf](#), [1](#), [2](#)

[rtu34dim](#), [2](#)

[xy2i](#) ([i2xy](#)), [1](#)