

# mgu74cv2cdf

April 16, 2019

---

`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 640)
<code>y</code>	numeric. y-coordinate (from 1 to 640)
<code>i</code>	numeric. single-number index (from 1 to 409600)

## Details

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

## See Also

[mgu74cv2cdf](#)

## Examples

```
xy2i(5,5)
i      = 1:(640*640)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

---

mgu74cv2cdf

*mgu74cv2cdf*

---

**Description**

environment describing the CDF file

---

mgu74cv2dim

*mgu74cv2dim*

---

**Description**

environment describing the CDF dimensions

# Index

## \*Topic **datasets**

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

[mgu74cv2cdf](#), [2](#)

[mgu74cv2dim](#), [2](#)

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

[mgu74cv2cdf](#), [1](#), [2](#)

[mgu74cv2dim](#), [2](#)

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