

# gp53cdf

December 25, 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 256)
y	numeric. y-coordinate (from 1 to 256)
i	numeric. single-number index (from 1 to 65536)

## Details

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

## See Also

[gp53cdf](#)

## Examples

```
xy2i(5,5)
i      = 1:(256*256)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

---

gp53cdf	<i>gp53cdf</i>
---------	----------------

---

**Description**

environment describing the CDF file

---

gp53dim	<i>gp53dim</i>
---------	----------------

---

**Description**

environment describing the CDF dimensions

# Index

## \* datasets

gp53cdf, [2](#)

gp53dim, [2](#)

i2xy, [1](#)

gp53cdf, [1](#), [2](#)

gp53dim, [2](#)

i2xy, [1](#)

xy2i (i2xy), [1](#)