hgu95av2cdf

July 23, 2025

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

Details

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

See Also

`hgu95av2cdf`

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"])
```

hgu95av2cdf *hgu95av2cdf*

Description

environment describing the CDF file

hgu95av2dim *hgu95av2dim*

Description

environment describing the CDF dimensions

Index

∗ **datasets**
hgu95av2cdf, 2
hgu95av2dim, 2
i2xy, 1

hgu95av2cdf, *1*, 2
hgu95av2dim, 2

i2xy, 1

xy2i *(*i2xy*)*, 1