Hspec

November 11, 2026

`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 1164)
`y`	numeric. y-coordinate (from 1 to 1164)
`i`	numeric. single-number index (from 1 to 1354896)

Details

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

See Also

`hspec`

Examples

```
xy2i(5,5)
i     = 1:(1164*1164)
coord = i2xy(i)
j     = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

`hspec` *hspec*

Description

environment describing the CDF file

`hspecdim` *hspecdim*

Description

environment describing the CDF dimensions

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