

# htratfocuscdf

February 3, 2010

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`i2xy`

*Convert (x,y)-coordinates to single-number indices and back.*

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## 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 744)           |
| <code>y</code> | numeric. y-coordinate (from 1 to 744)           |
| <code>i</code> | numeric. single-number index (from 1 to 553536) |

## Details

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

## See Also

[htratfocuscdf](#)

## Examples

```
xy2i(5, 5)
i      = 1:(744*744)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

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|                            |                      |
|----------------------------|----------------------|
| <code>htratfocuscdf</code> | <i>htratfocuscdf</i> |
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**Description**

environment describing the CDF file

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| <code>htratfocusdim</code> | <i>htratfocusdim</i> |
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**Description**

environment describing the CDF dimensions

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