

# hgu95dcdf

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## R topics documented:

<code>i2xy</code> . . . . .	1
<code>hgu95dcdf</code> . . . . .	2
<code>hgu95ddim</code> . . . . .	2

<b>Index</b>	<b>3</b>
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<code>i2xy</code>	<i>Convert (x,y)-coordinates to single-number indices and back.</i>
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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 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

[hgu95dcdf](#)

**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"])
```

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hgu95dcdf	<i>hgu95dcdf</i>
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**Description**

environment describing the CDF file

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hgu95ddim	<i>hgu95ddim</i>
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**Description**

environment describing the CDF dimensions

# Index

## \*Topic **datasets**

hgu95dcdf, [2](#)

hgu95ddim, [2](#)

i2xy, [1](#)

hgu95dcdf, [1](#), [2](#)

hgu95ddim, [2](#)

i2xy, [1](#)

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