

Euredit utility function: bar_chart

1 Purpose

bar_chart creates SVG bar-charts/histograms.

2 Specification

```
#include <euredit_sys.h>
```

```
void bar_chart (char *gname, long m, char **v_name, long *n_cat, long *cat_val,
               long *counts, long max_cat, double *mid_pts, long *height,
               long info[2])
```

3 Parameters

gname

Input: name of SVG file to be created.

m

Input: the number of variables.

Constraint: $m \geq 1$.

v_name[m][]

Input: **v_name[i]** contains the name of the i th variable, for $i = 0, 1, \dots, m - 1$.

n_cat[m]

Input: the number of categories present if a categorical variable.

cat_val[m*maxcat]

Input: the categories for the categorical variables. The categories for the i variable are stored in **catval**[i ***maxcat**+ j] for $j = 1, 2, \dots, n_cat[i]$.

mid_pts[m*max_cat]

Input: the mid-points of of the histogram classes for continous variables.

height[m*max_cat]

Input: the histogram/bar-chart heights.

info

Output: information on the success of the function call.

info[0] = 0: the function successfully completed its task.

info[0] = i : the specification of the i th formal parameter was incorrect, $i = 1, 2, \dots, 10$.

info[1] contains additional information for system debugging.