

Euredit utility function: xml_read

1 Purpose

xml_read reads data from an Euredit XML file.

2 Specification

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

```
void xml_read (char *xmlfname, char *xdrfname, double miss_val, long n,
               long m, double *data, char **v_name, long *n_cat, long *cat_val,
               long maxcat, long mset, long *nmiss, long info[2])
```

3 Parameters

xmlfname

Input: the file name of the Euredit XML data file.

xdrfname

Input: the file name of the Euredit XDR associated with the XML file.

miss_val

Input: the number that is used to represent a missing value.

n

Input: the number of observations in the data.

Constraint: $n \geq 1$.

m

Input: the number of variables in the data.

Constraint: $m \geq 1$.

data[n*m]

Output: the data stored by row.

v_name[m][max_name]

Output: the names of the m variables. Each row in **v_name** must be at least **max_name** in length, where the value of **max_name** is found by a call to **xml_data_size** prior to the call to **xml_read**.

n_cat[m]

Output: the number of categories present in a variable, if **n_cat**[i] = 0 then the variable is continuous

cat_val[m*maxcat]

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

maxcat

Input: the maximum number of categories in a variable.

mset

Input: indicated what level of data is to be set to missing.

If **mset** = 1 all non-valid values, including imputed values.

If **mset** = 2 all suspect, in error and missing values.

If **mset** = 3 all in error and missing values.

If **mset** ≥ 14 only missing data values.

Constraint: **mset** ≥ 1 .

nmiss

Output: the number of missing values in **data**.

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, $i = 1, 2, \dots, 13$.

info[0] = 99: the function failed to allocate enough memory.

info[1] contains additional information for system debugging.