NAME

writeValueFile – Write cost value data to a file

SYNOPSIS

#include <qnet.h>

int writeValueFile(string *path***, int** *ndim***, int** *nval***, int** *trunc[]***, void*** *h***, char*** *comment***);**

DESCRIPTION

The **writeValueFile**() writes cost value data for the entire state space to a file whose name is *path*. The dimension of the state space is *ndim* and *nval* specifies the number of cost values assocated with each state. The state space truncations are specified in the array *trunc[]* and the cost data to be saved is pointed to by *h*, which should have been allocated with **makeValueArray**(). If *comment* is not NULL then the character string it points to is written at the end of the file, otherwise a time-stamp is written.

RETURN VALUE

On success, the value **QNET_NORMAL** (defined to be zero) is returned, otherwise one of the following negative values is returned (currently there is only one):

QNET_BAD_FILE

The output file could not be opened or written to.

EXAMPLE

Suppose that the cost data pointed to by *h* corresponds to an *ndim*-dimensional state space with *nval* cost values per state. The truncation values are given in *N[]* using the QNET convention that N[0] is not used (so N[1] is the truncation value for the first dimension). If no special comment is desired (the default is a time-stamp) then the value data can be written to the file *value.h* with

```
writeValueFile(string("value.h"), ndim, nval, &N[1], h, NULL);
```

If a comment is desired then NULL can be replaced by a character array:

```
writeValueFile(string("value.h"), ndim, nval, &N[1], h, "Flex2 cost/value data");
```

SEE ALSO

readValueFile(3), **makeValueArray**(3)

AUTHOR

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