NAME

getDirEntries – reading Shore directories

SYNOPSIS

```
const NoSuchCookie;
const TerminalCookie;

VASResult
shore_vas::getDirEntries(
    const    lrid_t      &dir,
    char                 *rb,
    ObjectSize           bufbytes,
    int                  *nresults,
    Cookie               *cookie
);
```

DESCRIPTION

GetDirEntries writes sets of directory entries into a caller-provided buffer.

ARGUMENTS

Dir identifies the directory object of interest. *Rb* is points to the caller's buffer. *Bufbytes* is the size of the buffer, in bytes. *Nresults* is a pointer to an integer in the caller's data area, into which the SVAS writes the number of complete entries that were placed in the buffer. *Cookie* is a pointer to an opaque value that the SVAS places in the caller's data area, and which is used by the SVAS to maintain state between calls to **getDirEntries.** The caller must set the initial value of ∗*cookie* (on the first call) to *NoSuchCookie.*

TerminalCookie is returned when the last entry has been returned. Thus, there are no more entries to process when `*nresults == 0` and `*cookie == TerminalCookie.`

DIRECTORY ENTRIES

A directory entry is a 5-tuple:

opaque
Four bytes of opaque data.

serial A serial number, which is Shore's analog of an i-node number.

integer
The length, in bytes, of the entry.

integer
The length, in bytes, of the name.

name A sequence of characters that constitute the name of the directory entry.

All entries are 8-byte aligned when placed in the caller's buffer.

ENVIRONMENT

GetDirEntries is available on on the server and in the client library. The method acquires locks, so it must be run in transactions.

ERRORS

Deadlocks can occur while locks are being acquired. See **transaction(svas)** for information about deadlocks.

A complete list of errors is in **errors(svas).**

VERSION

This manual page applies to Version 1.1 of the Shore software.

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SEE ALSO

directory(svas), lookup(svas), transaction(svas), lockObj(svas), errors(svas), and **text(svas).**