

Category:LSL LinksetData

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Introduction

Linksets may store up to 128KiB of data as key/value pairs available to LSL scripts. This data is attached to the root prim in the linkset and survives transfer, script reset and object copying, it does not count against the memory usage of any script. Once set, the only way to erase it is via either the `llLinksetDataReset` or the `llLinksetDataDelete` functions. Whenever a script successfully modifies the linkset data using the `llLinksetDataReset`, `llLinksetDataWrite` or `llLinksetDataCreate` functions a `linkset_data` event is fired in all scripts in the linkset describing the action taken and key name that was affected.

Linkset data is not visible outside of a linkset; a script may only access the linkset data for the linkset that it is running in. Linkset data is not applicable to avatars.

When merging two linksets, both with linkset data, the new root's data is preserved and the simulator makes an effort to move as many of the key value pairs from the old root to the new. If there is insufficient space for all data the simulator will discard some data from the old root. The data selected for preservation may be arbitrary.

Functions

Function: `integer IILinksetDataWrite(string name, string value);`

Creates or updates a key/value pair in the linksets datastore.

Returns an integer indicating success or failure. `0` is success, a positive number indicates failure.

- string `name` – key name for data to be stored.
- string `value` – String data to be associated with this key.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Caveats

If value is an empty string, the key is deleted from the linkset data.

All Issues ~ Search JIRA for related Bugs (<http://jira.secondlife.com/secure/IssueNavigator!executeAdvanced.jspa?jqlQuery=summary+%7E+%22%5B%5BIILinksetDataWrite%5D%5D%22+OR+description+%7E+%22%5B%5BIILinksetDataWrite%5D%5D%22+ORDER+BY+Created+DESC&runQuery=true>)

Function: `string IILinksetDataRead(string name);`

Reads the value associated with a key from the linkset's key-value datastore.

Returns a string associated with the key. If the key does not exist, an empty string is returned.

- string `name` – key name for data to be stored.key name for data to be read.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Function: `IILinksetDataDelete(string name);`

Removes a key value pair from the linkset's datastore.

- string `name` – key name for data to be stored.key name for data to be read.which is the key name for data to be read.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Function: `list IILinksetDataDeleteFound(string pattern, string pass);`

finds and attempts to delete all keys in the data store that match pattern.

Returns a list of the number of keys deleted or skipped.

- string `pattern` – A regular expression describing which keys to delete.
- string `pass` – Optional pass phrase to delete protected keys.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Function: `IILinksetDataReset();`

Erases all existing keys value pairs in the linkset's datastore.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Function: integer IILinksetDataAvailable();

The number of bytes available in the linkset's datastore

? Function ID
 0.0 Forced Delay
 10.0 Energy

Returns an integer with the number of bytes free in the datastore.

Function: integer IILinksetDataCountKeys();

Returns the number of keys used in the datastore.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Returns an integer with the total number of keys in use.

Function: integer IILinksetDataCountFound(string pattern);

Returns the number of keys in the linkset datastore that match the pattern supplied in the pattern.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Returns an integer count of the keys in the datastore that match the supplied pattern.

- string pattern – A regular expression describing which keys to delete. A regular expression describing which keys to return.

Function: list IILinksetDataListKeys(integer first, integer count);

Return a list of keys currently in use in the linkset data.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Returns a list of keys stored in the linkset data.

- integer first – The (zero based) index of the first key to return.
- integer count – The maximum number of key names to return in the list.

Function: list IILinksetDataFindKeys(string regex, integer first, integer count);

Return a list of keys the linkset data which match the expression passed to the function.

? Function ID
 0.0 Forced Delay
 10.0 Energy

Returns a list of keys matching regex stored in the linkset data.

- string regex – A regex expression (https://en.wikipedia.org/wiki/Regular_expression) to search for.
- integer first – The (zero based) index of the first key to return. The (zero based) index of the first key to return.

- integer count – The maximum number of key names to return in the list.The maximum number of key names to return in the list.

Events

Function: linkset_data(integer action, string name, string value);

- integer action – The action taken on the linkset datastore. reset, update or delete.

? Function ID
- string name – key name for data to be stored.key name for data to be read.which is the key name for data to be read.The name of key changed.

Forced Delay
Energy
- string value – String data to be associated with this key.The value associated with the key. Empty string for reset or delete.

All Issues ~ Search JIRA for related Bugs (http://jira.secondlife.com/secure/IssueNavigator!executeAdvanced.jspx?jqlQuery=summary+%7E+%22%5B%5Blinkset_data%5D%5D%22+OR+description+%7E+%22%5B%5Blinkset_data%5D%5D%22+ORDER+BY+Created+DESC&runQuery=true)

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This page was last edited on 8 September 2023, at 04:34.

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