

LTTng-tools - Bug #1246

--filter expression parser accepts foo[bar]

03/19/2020 05:43 PM - Simon Marchi

Status:	New	Start date:	03/19/2020
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			

Description

According to the doc, it is only possible to access arrays elements using positive literal integer numbers. However, the parser accepts:

```
./lttng enable-event -u -a --filter 'allo[toi] == 2'
```

Internally, `create_load_expression` creates a `ir_load_expression_op` node with type `IR_LOAD_EXPRESSION_GET_INDEX`. However, the associated index value is the value of the pointer to the `toi` string, interpreted as an unsigned integer by `visit_node_load_expression` when generating the bytecode.

I think this user error should be caught earlier and result in an error on the client side.