

## PSync - Task #4819

### murmurHash3: size\_t used for negative values

01/28/2019 10:03 AM - Jeff Thompson

<b>Status:</b>	New	<b>Start date:</b>	01/28/2019
<b>Priority:</b>	Low	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
<p>murmurHash3 has a for loop that indexes an array with a negative offset from the end of the array. In your implementation, you use an index of type size_t:</p> <p><a href="https://github.com/named-data/PSync/blob/0cf4b600e91455ee07c38eb22876aa6b653bc14b/PSync/detail/util.cpp#L49">https://github.com/named-data/PSync/blob/0cf4b600e91455ee07c38eb22876aa6b653bc14b/PSync/detail/util.cpp#L49</a></p> <pre>for (size_t i = -nblocks; i; i++) {     uint32_t k1 = blocks[i]; }</pre>			
<p>But size_t is an unsigned integer. It's a little weird to use it for negative values because it's stored as a large positive number. For the moment, you are getting lucky and the integer math for blocks[i] works out. But maybe some platform or C++ compiler wouldn't do the right thing. The original code uses "int i". Maybe that is better.</p>			
<p>This issue is a low priority comment. Feel free to abandon it.</p>			