Subject: underflow in bool Sql::fetch()
Posted by grc3H0219 on Sat, 26 Jul 2008 17:15:14 GMT
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Hello:
I have been Ultimate++ with sqlite3 for about 4 months and have found Ultimate++ very easy to use. I am using TheIDE 2008.2 beta 2008-03-24 9:41, Mingw and Windows XP Professional SP2. I have run into a few very minor problems.
The first problem is with bool Sql::fetch() and was mentioned in message #14083.
(http://www.ultimatepp.org/forum/index.php?t=msg&goto=140 91&)
The patch corrected the integer overflow of the positive values.
I am seeing integer overflow(underflow) in negative values such that when t is small compared to starttime and traceslow,
- session.traceslow - cn->starttime
is smaller than -(INT_MAX) and is converted to a large postive number instead the small negative value that it is. This results in the output of all SQL statements to the BugLog file. In bool Sql::Fetch(),

When I convert the
bool Sql::fetch() code: if(t - session.traceslow - cn->starttime > 0)

to: if((float)t - (float)session.traceslow - (float)cn->starttime > 0)

or to: if((signed long long)t - (signed long long)session.traceslow - (signed long long)cn->starttime > 0)

the correct number is generated. The following values are typical numbers for t,starttime and traceslow on my system:

t: 2076696 starttime: 2147483647 traceslow: 536870911

In SqlSession::SqlSession(),
traceslow = INT_MAX / 4; So, if t is less than INT_MAX / 4, there will be an integer overflow error.

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