Posted by Peter on Mon, 31 Dec 2012 10:16:55 GMT

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Hi.

I'll start with the code example sufficient to reproduce the wrong behaviour. The example consists of a single file Main.cpp:

```
#include <Skylark/Skylark.h>

using namespace Upp;

bool handler_checked;

SKYLARK(BBB, "bbb")
{
 http << "<html><body>OK</body></html>";
 handler_checked = false;
}

SKYLARK(Check, "check")
{
 handler_checked = true;
 http.Redirect(BBB);
}

SKYLARK(HomePage, "")
{
 if(!handler_checked)
 {
  http.Redirect(Check);
  return;
 }
 RLOG("ERROR");
}

SKYLARK(CatchAll, "**")
{
 http.Redirect(HomePage);
}

struct MyApp : SkylarkApp {

   MyApp() {
   #ifdef _DEBUG
 prefork = 0;
```

```
  use_caching = false;
 #endif
    }
};

CONSOLE_APP_MAIN
{
 #ifdef _DEBUG
 StdLogSetup(LOG_FILE|LOG_COUT);
 Ini::skylark_log = true;
 #endif
    MyApp().Run();
}
```

Now for the actual problem. My motivation is as follows: whenever I go to root page, I want to get redirected to /check and finally
to /bbb. Redirection process is managed by a boolean variable handler_checked (initially set to false). In Check I set it to true and finally reset it back to false in BBB (so that another visit to root page will redirect me to /bbb again).

Unfortunately, after a random number of attempts (usually between 2 and 4) something goes wrong and root page doesn't redirect me to /bbb anymore. According to logs, at some point redirection from /check to /bbb fails. As a result, after redirection sequence is complete, I'm left with handler_checked == true instead of false. That's why another access to root page doesn't redirect me anywhere (I go to RLOG("ERROR") instead).

Please compare these two fragments of log:

1. correct redirection to /bbb:

7 Redirect to: /bbb
7 Finished
n Accepted
g Waiting for accept
n GET /bbb

2. redirection to /bbb skipped(?):

s Redirect to: /bbb
s Finished
4 Accepted
p Waiting for accept
4 GET /

As you can see, in the second case for some reason we have "GET /" instead of "GET /bbb". Because we miss a call to BBB and call HomePage instead with value of handler_checked not restored to false, we end up with the error I described.

I'm able to reproduce this problem with
Google Chrome 20.0.1132.47 (or Chromium which I think makes no real difference) while Mozilla Firefox seems to behave correctly (I haven't tried other browsers yet). Try the following steps using Chrome:

1. Compile the code and run the application.
2. Go to root page.
3. Keep repeating step 2 - one of the attempts should not redirect you to /bbb, you should end up with a blank root page and "ERROR" in log.

Best regards

Peter

Subject: Re: Redirect - possibly another Skylark bug
Posted by mirek on Tue, 01 Jan 2013 12:49:18 GMT
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Ops. I am sorry it is not really clear, but you cannot use global variables in this way in Web code. The sequence you expected to come from one browser can be interrupted by other client's browser at any time.

Use cookie or session variable (which is cookie based as well).

Mirek