

## Klever - Feature #8598

### Support partially threaded environment models

11/27/2017 11:30 AM - Evgeny Novikov

<b>Status:</b>	Closed	<b>Start date:</b>	11/27/2017
<b>Priority:</b>	Urgent	<b>Due date:</b>	
<b>Assignee:</b>	Ilja Zakharov	<b>% Done:</b>	0%
<b>Category:</b>	Environment model	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.0		
<b>Published in build:</b>			

#### Description

It turned out that it is extremely difficult to find data races when having many threads even using a rather lightweight approach. Indeed there is an exponential growth of a CPU time depending on a number of threads (indeed [#8581](#) matters). So, the verification tool does not produce anything good for rather large programs.

That's why Pavel suggested to create a single thread at the top of environment model, say, when modules are initialized/exited, and do not generate any threads below.

#### History

##### #1 - 11/29/2017 02:12 PM - Ilja Zakharov

- Status changed from New to Resolved

Implemented in emg-improvements.

The mode is not set as default. To try it one need to change the following two options:  
"direct control functions calls": false -> true,  
"self parallel model": false -> true,

##### #2 - 03/05/2018 12:33 PM - Ilja Zakharov

Moved to 8066-abstract-translator. I have changed a bit configuration options names.

##### #3 - 10/25/2018 09:17 PM - Evgeny Novikov

- Status changed from Resolved to Closed

Branch *klever-2.0* passed all tests and I merged it to master in [72be796e3](#) marked as *v2.0rc1*.