

Klever - Feature #9535

Bug # 6629 (Closed): Used CIL is outdated

Increase memory limit for Frama-C (CIL)

03/13/2019 09:55 AM - Evgeny Novikov

Status: Closed	Start date: 03/13/2019
Priority: Urgent	Due date:
Assignee: Evgeny Novikov	% Done: 0%
Category: Tasks generation	Estimated time: 0.00 hour
Target version: 3.0	
Published in build:	
Description	
Unfortunately it seems that Frama-C (CIL) needs much more memory than previously used CIL. Maybe 1 GB instead of 300 MB will be enough to have the same results. Also we need to increase the default memory limit for deciding verification jobs.	
Related issues:	
Related to Deductive Verification Tools for Linux Kernel - Feature #9538: Red...	Closed 03/13/2019

History

#1 - 03/13/2019 10:20 AM - Evgeny Novikov

- Related to Feature #9538: Reduce memory consumption by Frama-C (CIL) added

#2 - 03/13/2019 10:20 AM - Evgeny Novikov

Perhaps, we will not need this if [#9538](#) will shoot.

#3 - 03/13/2019 03:22 PM - Evgeny Novikov

- Status changed from New to Open

I did both in branch *frama-c-cil*. But in one case it did not help. Let's wait for [#9538](#) since too greedy CIL is not good.

#4 - 03/13/2019 03:22 PM - Evgeny Novikov

- Related to deleted (Feature #9538: Reduce memory consumption by Frama-C (CIL))

#5 - 03/13/2019 03:22 PM - Evgeny Novikov

- Blocked by Feature #9538: Reduce memory consumption by Frama-C (CIL) added

#6 - 03/15/2019 08:51 AM - Evgeny Novikov

- Blocked by deleted (Feature #9538: Reduce memory consumption by Frama-C (CIL))

#7 - 03/15/2019 08:51 AM - Evgeny Novikov

- Related to Feature #9538: Reduce memory consumption by Frama-C (CIL) added

#8 - 03/15/2019 10:28 AM - Evgeny Novikov

- Status changed from Open to Resolved

One more iteration helped. Unfortunately, Frama-C (CIL) needs very much RAM for merging some source files. At the moment the limit is 2 GB rather than 300 MB as it was for CIL. Job limits start from 3 GB and they are 5 GB even for jobs that have only 2 parallel task generators and one sub-job worker of course. Nevertheless for simple tests one can use much more aggressive parallelism.

#9 - 03/17/2019 11:38 AM - Evgeny Novikov

After Mikhail made considerable optimizations ([#9538](#)) I reduced the CIL memory limit from 2 GB to 1 GB. I didn't change job limits, since specified values seem to be much better.

#10 - 03/25/2019 04:09 PM - Evgeny Novikov

- Status changed from Resolved to Closed

I merged the branch to master in [c082518](#).