# GammaLib - Bug #3287

## Make reading and writing of parameter file thread safe

07/29/2020 09:23 AM - Knödlseder Jürgen

 Status:
 Closed
 Start date:
 07/29/2020

 Priority:
 Normal
 Due date:

 Assigned To:
 Knödlseder Jürgen
 % Done:
 100%

 Category:
 Estimated time:
 0.00 hour

Target version: 1.7.1

## Description

When running gsrvy an exception occurs sometimes that states that no chatter parameter is found. When inspecting the application parameters they appear in fact empty. It may be that the reading of the parameter file is not thread safe.

#### History

### #1 - 07/29/2020 09:25 AM - Knödlseder Jürgen

- % Done changed from 0 to 50

I put the reading and writing of the parameter file in GApplicationPars::read() and GApplicationPars::write() in an OpenMP critical zone.

#### #4 - 08/03/2020 08:54 PM - Knödlseder Jürgen

- Status changed from New to In Progress

See also #3303.

#### #5 - 08/04/2020 11:29 PM - Knödlseder Jürgen

- Status changed from In Progress to Feedback
- % Done changed from 50 to 90

Most of the diagnostic information can be found in issue #3303, the solution identified was to put the code in the GApplicationPars::read() and GApplicationPars::write() methods in the same named critical zone so that concurrent read and write operations of different threads are not permitted.

Hope that this fixes the issue now. I set the status of the issue to feedback to see whether the problem has finally stopped (the occurence of the issue is very intermittent, hence a few days of gsrvy runs are needed to conclude with a high probability that the issue was fixed).

### #6 - 08/07/2020 11:21 AM - Knödlseder Jürgen

- Status changed from Feedback to Closed
- % Done changed from 90 to 100

I have not seen any problem anymore. Close the issue now.

05/18/2024 1/1