MARTe2-core - User story #920

Document the execution order of Brokers

06.08.2021 17:49 - Giuseppe Ferro

Status:	Closed	**Start date:**	06.08.2021
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:		**Spent time:**	0.00 hour
Git branch (link):		**SVN commit (link/?p=rev):**	
Git merge to develop (link):			

Description

The order or execution of the Brokers in a GAM does not follow the order of the signals as defined in the configuration. Actually, it follows the order of definitions of the DataSources in the +Data section.
Example:

```
Functions = {
+GAM = {
InputSignals = {
Time = {
DataSource = LinuxTimer
Type = uint32
Frequency = 1
}
Dummy = {
DataSource = DDB
Type = uint32
}
}
}
}

+Data = {
+DDB = {
Class = GAMDataSource
}
+LinuxTimer = {
Class = LinuxTimer
...
}
}
```

The Dummy signal is read before the synchronization because DDB is defined before LinuxTimer.

- Document this or put a warning to assert that read/write order is not guaranteed to inform the user to force the order by separating the signals in different GAMs

History

#1 - 19.08.2021 11:05 - Giuseppe Ferro

- Status changed from New to Code: Impl

#2 - 19.08.2021 11:05 - Giuseppe Ferro

- Assignee set to Giuseppe Ferro

#3 - 20.08.2021 11:23 - Giuseppe Ferro

Added function GAM::SortBrokers() which sorts the brokers within the GAMs following the signals order

#4 - 20.08.2021 11:23 - Giuseppe Ferro

- Status changed from Code: Impl to Unit: Rev

#5 - 20.08.2021 11:24 - Giuseppe Ferro

- Assignee deleted (Giuseppe Ferro)

#6 - 14.01.2022 09:52 - André Neto

- Status changed from Unit: Rev to Closed   *2/2*

Merged with develop in eb2d483c0e6197129ae6f9777cfc0ccdb58d869d