

# FrontISTR ver. 5.1.1 Release Note

FrontISTR commons

2020/11/13

# FrontISTR ver. 5.1.1 has been released!



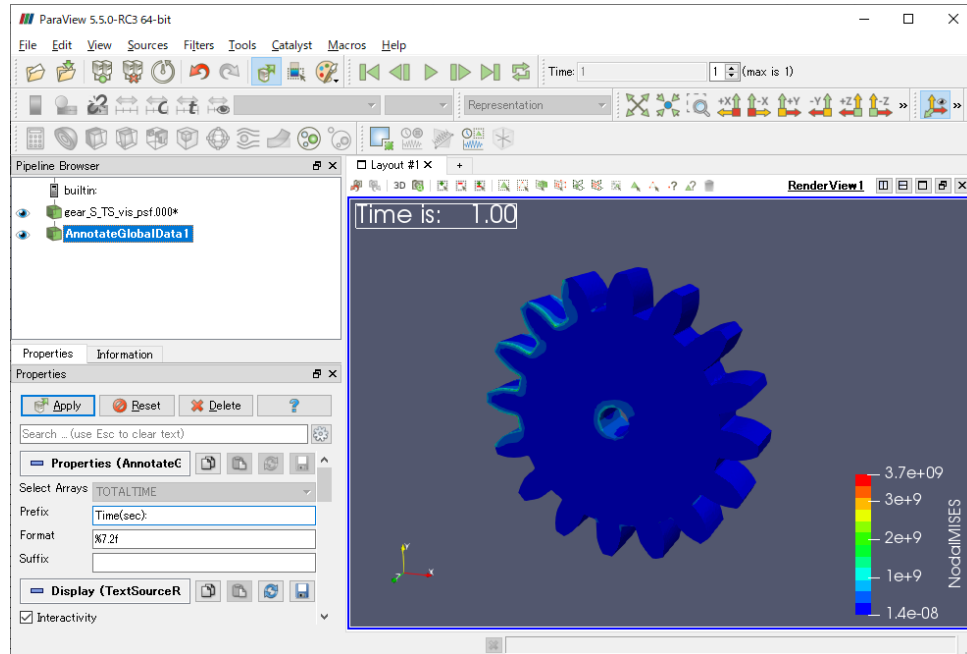
## FrontISTR v5.1.1 (almost patchy lease)

- Release date: November 13, 2020
- Changes from ver. 5.0 (June 30, 2020)
  - Improvements : 1
  - Specification changes: 6
  - Bugs fixed: 12

version	release date
Ver. 4.4	2015/02/17
Ver. 4.5 RC1	2015/12/07
Ver. 4.5	2016/07/22
Ver. 4.6	2017/09/14
Ver. 5.0 $\alpha$	2018/02/01
Ver. 5.0 $\beta$	2018/11/01
Ver. 5.0 RC	2019/09/05
Ver. 5.0	2019/10/18
Ver. 5.1	2020/06/30
<b>Ver. 5.1.1</b>	<b>2020/11/13</b>

# Improvements

- issue 108: Output a time to VTK
  - Global data, such as time, can be displayed on screen in the Paraview.
  - Open Files -> Filters -> Annotation -> Annotate Global Data



# Specification changes

- issue 156: Make test error detection relative to the reference.
- issue 237: add cmake rules for new MUMPS version
- issue 247: Fix autoinc example
- issue 282: Massive error messages when running MPI in parallel with Docker container-provided FrontISTR.
- issue 284: Support DAG feature in Gitlab CI/CD.
- issue 288: Find Intel MKL with cmake.

# Bugs fixed

- issue 026: ELEM CHECK Sparsity Overflow
- issue 052: Delete compile warnings (ongoing)
- issue 244: Compiling error by gfortran-10
- issue 245: bug : unable to compile in setup.sh
- issue 259: fix a bug in Positive DOF elimination with MPC
- issue 278: Minor bug fixes
- issue 279: mkl not found in cmake
- issue 281: Spelling mistakes
- issue 283: Minor fixes to the Fbar element
- issue 285: The 741 Shell eigenvalue parsing may fail.
- issue 287: Unable to run tests in bash on the mac
- issue 289: heat/exU2 sometimes fails on test\_hybrid due to numerical error

# Acknowledgements

## Contributors

FrontISTR.git

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Michio Ogawa	2
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FrontISTR\_manual.git

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Michio Ogawa	19
TOKUNAGA Ken-ichi	10
Yu IHARA	6
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Bug reports

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- Count the number of commits merged into the release branch in the git repository (Merge commits are not counted)
- Command: `git log --no-merges [previous release branch]. [This release branch] | grep -e Author | sort | uniq -c | sort -nr`
- Author name deviations are manually merged

**Thank you very much for your cooperation!**





Version 5.1.1 now available