

GROMACS - Task #2893

Task # 2045 (New): API design and language bindings

Integrate gmxapi Python package

03/14/2019 03:42 PM - Eric Irrgang

Status:	Resolved	
Priority:	Normal	
Assignee:	Eric Irrgang	
Category:	gmxapi	
Target version:	2020	
Difficulty:	uncategorized	
Description		
<p>The Python package distributed through GitHub is to be merged with the GROMACS repository. This issue addresses the migration to the GROMACS repository as the new canonical source of the package.</p> <p>Goal: Centralize gmxapi project sources, design documentation, tests, and ongoing development in the GROMACS code management ecosystem.</p> <p>Criteria for completion:</p> <ul style="list-style-type: none">- Expressed functional goals are articulated with a mechanism for testing acceptable implementation.- Ongoing gmxapi development can be pursued reasonably as changes staged through Gerrit for GROMACS master.- A framework has been established to express project requirements, achieve design consensus, and propose incremental development in a clear context. <p>Explicitly deferred:</p> <ul style="list-style-type: none">- testing infrastructure exercised through Jenkins- Python packaging details- documentation integration- unified CMake infrastructure <p>To minimize the intrusiveness of early commits, a new directory `python_packaging` holds documentation, testing tools, and Python package sources.</p> <p>Design documentation describes numbered functional requirements that can be cross-referenced as "FR#" in commit messages, tests, documentation, and other tagging mechanisms as needed, where "#" is an integer.</p> <p>Reference https://redmine.gromacs.org/projects/gromacs/repository/revisions/master/entry/python_packaging/roadmap.rst</p> <p>Comment: First change establishes directory structure for initial commits of documentation, packaged code, and basic infrastructure to support development and testing.</p> <p>Second change expresses functional goals in a roadmap.rst, with acceptance criteria as a set of Python (pytest) unit tests.</p>		
Subtasks:		
Bug # 3144: gmxapi.mdrun does not clearly expose the output trajectory.		New
Related issues:		
Related to GROMACS - Task #2912: C++ extension module for Python bindings		Resolved
Blocks GROMACS - Task #2894: Wrap importable Python code.		Resolved
Blocks GROMACS - Task #2895: gmxapi Output proxy establishes execution depend...		Resolved

Associated revisions

Revision fae19655 - 03/29/2019 10:39 AM - Eric Irrgang

Plumbing for gmxapi 2019 Q1/Q2 project roadmap.

Provide infrastructure so that dependent change can focus on content of project plan.

Ref: #2893

Change-Id: Idd72e9ede890f7fc97a680c5a5bffe97499eaaf5

Revision 4a1d0408 - 04/09/2019 11:25 AM - Eric Irrgang

gmxapi 2019 Q1/Q2 project roadmap.

Lay out project goals, functional requirements, and testing plans.
Provides roadmap.rst and pytest acceptance tests
expressing the required functionality of the Python package.

Ref: #2893

Change-Id: I71ec79eb5d8a6e4d61fb5d7d6e20176c9c07a6af

Revision 476e2dc2 - 04/24/2019 03:12 PM - Eric Irrgang

Infrastructure updates for dependent changes.

- Introduce gmxapi.exceptions.ProtocolError.
- Add some pytest configuration and helpers.
- Update some comments.

Refs: #2893

Gerrit patch set 9367/5

Revision 4f265b31 - 04/24/2019 03:12 PM - Eric Irrgang

Command line wrapper with data flow.

Introduce gmxapi.commandline_operation(), a fused operation that allows
data flow constraints to be mapped to input and output file arguments.

Expand gmxapi.operation tools to support the data flow constraints.

Achieves functional requirements 1, 2, and 3 as described
in the documentation submitted under #2893.

Updates some acceptance tests duplicated in a companion change.

Fixes: #2894

Gerrit patch set 9371/10

Revision 8ef8d2bc - 05/02/2019 07:22 PM - Eric Irrgang

Infrastructure updates for dependent changes.

- Introduce gmxapi.exceptions.ProtocolError.
- Add some pytest configuration and helpers.
- Update some comments.

Refs: #2893

Change-Id: I71030c3b552d568df7263115430631208812b9dc

Revision d0536976 - 05/09/2019 09:11 AM - Eric Irrgang

Expand gmxapi.operation tools to support the data flow constraints.

Achieves functional requirements 1, 2, and 3 as described
in the documentation submitted under #2893.

Updates some acceptance tests duplicated in a companion change.

Fixes: #2894

Change-Id: I26b1413c83e3ad176f2fd70f93e8b8e1033667ae

Revision ffab5391 - 08/22/2019 04:30 PM - Eric Irrgang

Python wrapping code for gmxapi mdrun bindings.

Expose the mdrun bindings to the Python interface. Imports workflow.py
and context.py from 0.0.7.4 tagged release of external project at

<https://github.com/kassonlab/gmxapi> with minimal modifications.

Refs #2893
Refs #2912
Refs #3027

Change-Id: I44a66646eceb191a2ec755169671af326f22526a

Revision 6cb31a6b - 09/03/2019 09:52 AM - Eric Irrgang

Python wrapping code for gmxapi mdrun bindings.

Expose the mdrun bindings to the Python interface.

Updates workflow.py and context.py from 0.0.7.4 tagged release of external project.

Refs #2893
Refs #2912
Refs #3027

Change-Id: I44a66646eceb191a2ec755169671af326f22526a

History

#1 - 03/14/2019 03:44 PM - Gerrit Code Review Bot

Gerrit received a related patchset '11' for Issue [#2893](#).

Uploader: M. Eric Irrgang (ericirrgang@gmail.com)

Change-Id: gromacs~master~l71ec79eb5d8a6e4d61fb5d7d6e20176c9c07a6af

Gerrit URL: <https://gerrit.gromacs.org/9202>

#2 - 03/14/2019 03:45 PM - Gerrit Code Review Bot

Gerrit received a related patchset '3' for Issue [#2893](#).

Uploader: M. Eric Irrgang (ericirrgang@gmail.com)

Change-Id: gromacs~master~l71ec79eb5d8a6e4d61fb5d7d6e20176c9c07a6af

Gerrit URL: <https://gerrit.gromacs.org/9241>

#3 - 03/14/2019 03:56 PM - Eric Irrgang

- *Tracker changed from Feature to Task*

- *Description updated*

#4 - 03/14/2019 03:57 PM - Eric Irrgang

- *Blocks Task #2894: Wrap importable Python code. added*

#5 - 03/14/2019 04:03 PM - Eric Irrgang

- *Blocks Task #2895: gmxapi Output proxy establishes execution dependency. added*

#6 - 03/29/2019 04:46 PM - Gerrit Code Review Bot

Gerrit received a related DRAFT patchset '1' for Issue [#2893](#).

Uploader: M. Eric Irrgang (ericirrgang@gmail.com)

Change-Id: gromacs~master~l71030c3b552d568df7263115430631208812b9dc

Gerrit URL: <https://gerrit.gromacs.org/9367>

#7 - 03/31/2019 05:26 PM - Eric Irrgang

- *Related to Task #2912: C++ extension module for Python bindings added*

#8 - 04/09/2019 11:27 AM - Mark Abraham

- *Description updated*

#9 - 04/09/2019 12:18 PM - Eric Irrgang

- *Description updated*

#10 - 04/09/2019 12:20 PM - Eric Irrgang

- *Status changed from New to Resolved*

Unless there are requests for additional infrastructure or procedures, this task appears to be resolved.