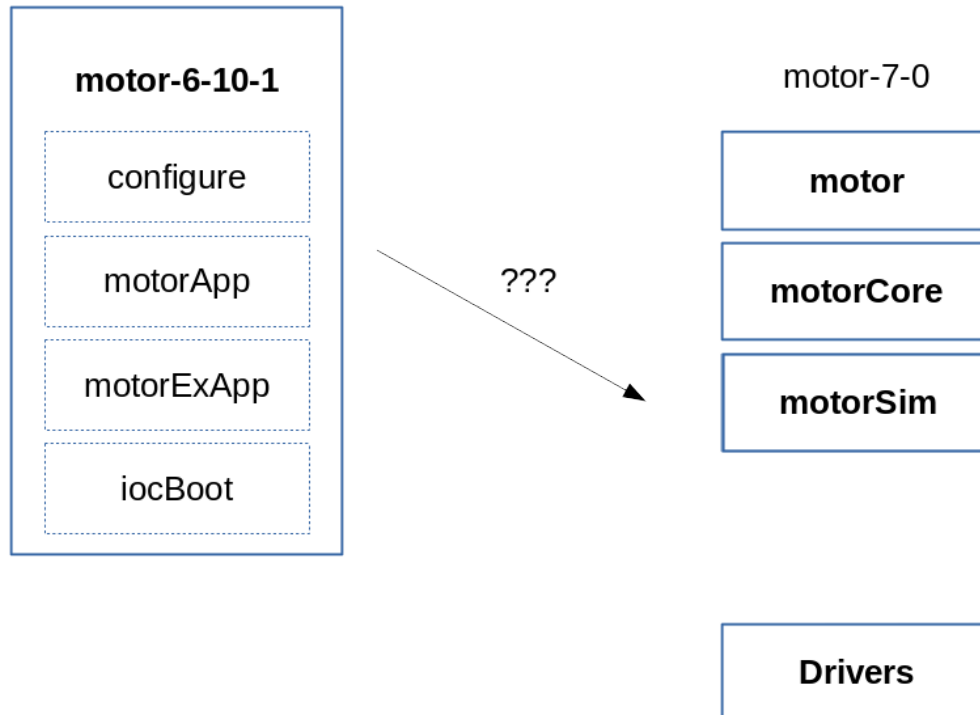


BREAKING UP THE MOTOR MODULE

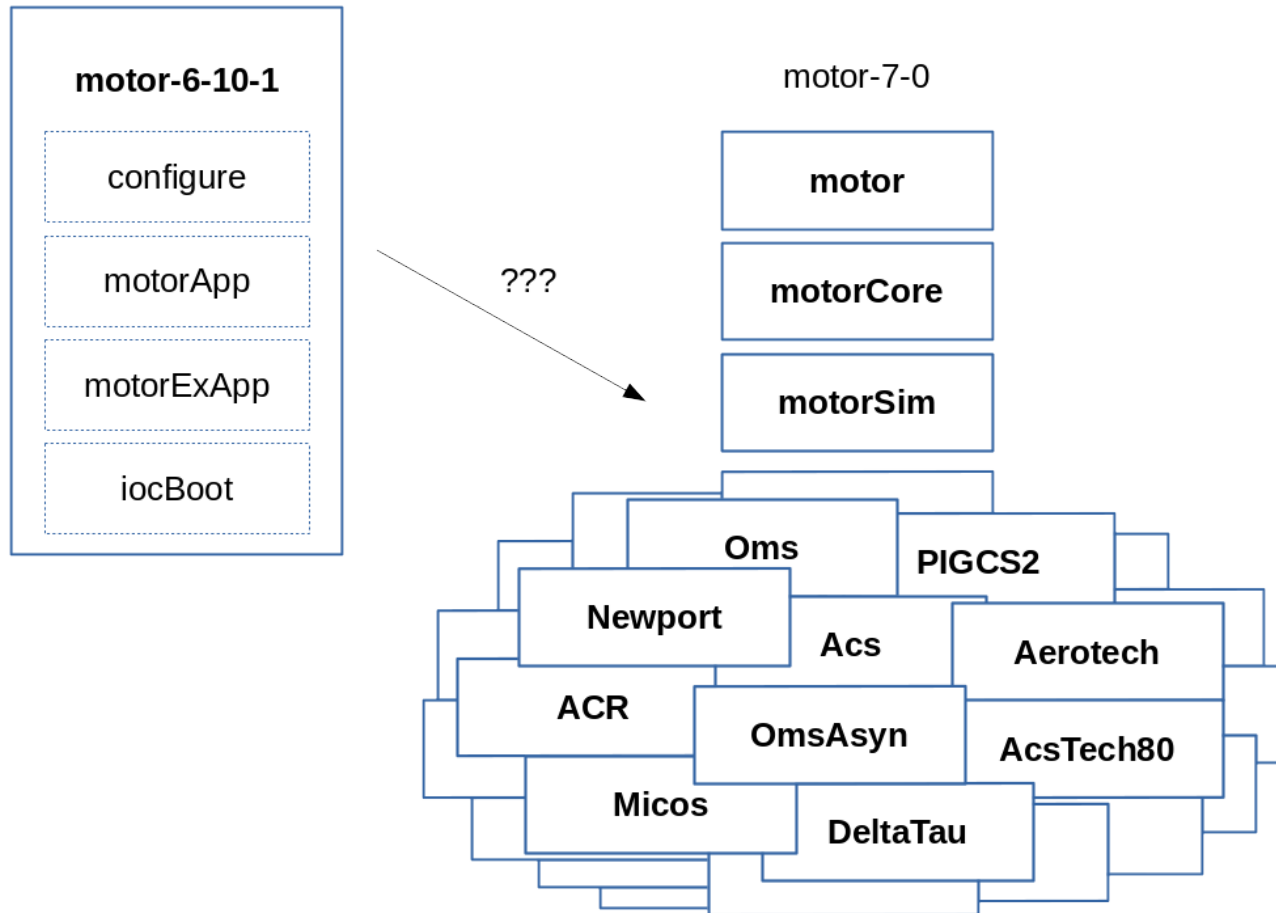
PROPOSAL:

Break the motor module into core module(s) & many driver modules



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Break the motor module into core module(s) & many driver modules



WHY BREAK UP THE MOTOR MODULE?

There are many advantages:

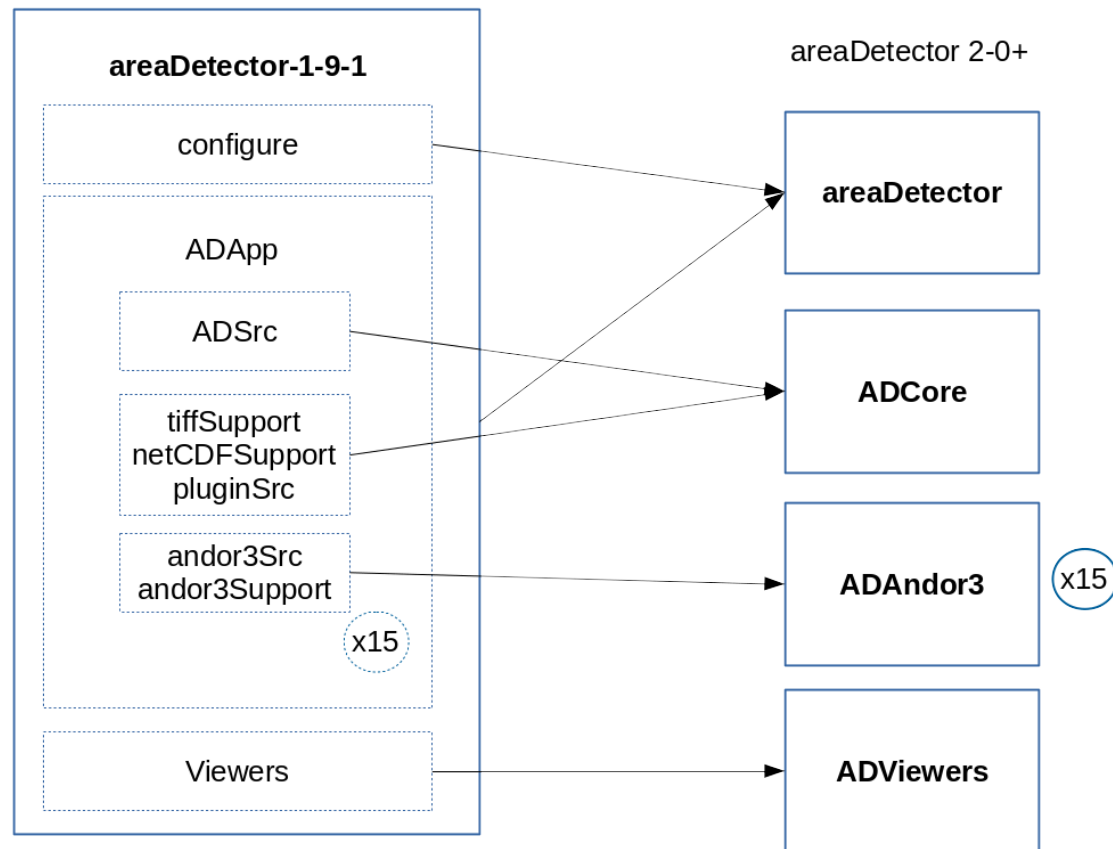
- Drivers can be released on different schedules
- Releases would be more focused
- Fewer barriers to collaboration (smaller units of responsibility)
- Shorter build times (if few drivers are deployed)

And some disadvantages:

- Manually deploying subset of drivers takes more effort
- More complex (git submodules)
- Change is scary
- ---

THIS IDEA ISN'T ORIGINAL

areaDetector is a model for how to do this



QUESTIONS

These questions are not meant to be rhetorical

Is this a good idea?

Note: the rest of this presentation assumes it is,
but differing opinions are welcome.

QUESTIONS (CONTINUED)

These questions are not meant to be rhetorical

Where should the repositories reside?

QUESTIONS (CONTINUED)

Where should the new repositories reside?

- motor currently resides in epics-modules:
 - <https://github.com/epics-modules/motor>
- areaDetector repos reside elsewhere:
 - <https://github.com/areaDetector/areaDetector>
 - <https://github.com/areaDetector/ADCore>
- New motor repos could be added to epics-modules:
 - <https://github.com/epics-modules/motorCore>
- epics-motor organization could be created:
 - <https://github.com/epics-motor/motor>
 - <https://github.com/epics-motor/motorCore>

QUESTIONS (CONTINUED)

These questions are not meant to be rhetorical

Should MotorSimSrc get
its own repository?

QUESTIONS (CONTINUED)

These questions are not meant to be rhetorical

Should SoftMotorSrc be included
in the motor core repository?

soft motor = motor with “Soft Channel” device support

QUESTIONS (CONTINUED)

These questions are not meant to be rhetorical

Can the top-level motor repository
include the motor core?

QUESTIONS (CONTINUED)

Naming modules is hard

- What should the driver-repository naming convention be?
 - <vendor>
 - <vendor>Motor
 - motor<vendor>
- Directory that complicates naming conventions: **SmartMotorSrc**
 - SmartMotor
 - SmartMotorMotor
 - motorSmartMotor

ADDITIONAL GOALS

Simplify the deployment process

- Make it easy to build drivers outside of the top-level motor directory.
- Make it easy to build IOCs outside of the driver directory.

FEEDBACK

There are multiple ways to provide additional feedback

- Comment on the github issue:
 - <https://github.com/epics-modules/motor/issues/55>
- Revive the tech-talk thread (or better yet, start a new one):
 - <https://epics.anl.gov/tech-talk/2017/msg00264.php>
- Email me:
 - kmpeters@anl.gov

THE END.