



iRODS Build and Packaging: 2026 Update

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- Accomplishments since UGM2025
- What's next?

Accomplishments since UGM2025

- iCommands source code merged back into main iRODS git repository.
- Implemented automated linting for Python using `ruff`.
 - https://github.com/irods/irods_reusable_github_workflows/blob/main/git_ruff.py
- Added support for EL10 and Debian 13.
- Externals dependencies migrated to system packages:
 - CMake
 - `spdlog`
 - Catch2
 - fmtlib
 - nlohmann-json
 - Redis*
- Added testing environment support for Postgres 17 and MariaDB 11.8.
- Externals build process migrated to distribution-provided compilers.
- Externals packaging migrated from `fpm` to nFPM.
- Build and packaging consistency sweep for Globus connector.

What's next? (tentative, non-exhaustive)

- Ubuntu 26.04 support.
- Migrate dependency usage to `find_package`:
 - Boost
 - `nanodbc`
 - ODBC
 - PAM
- Reduce library soname versioning to major and minor components only.*
- Split iCommands symlinks into a new package.*
- Update `mungefs` for new CMake versions.
- Flesh out `distro_distill`.
- Userspace packager update.
- Install libraries in the normal locations on Debian/Ubuntu.
- `init.d` script for systemd-less environments.
- `main()` in plugins and libraries to provide build/runtime information.
- Proper CMake target names.
- More splitting up of `/var/lib/irods`.
- Side-by-side installable database plugins.
- Headers in CMake target sources lists.
- Testing environment improvements.

Thank you!

Questions?