← C ☆   Feature Request: Multi-process support for DataStore   +1 ²¹   Hotlists (1)   Mark as Duplicate   🔔 ⋮

Comments (9)   Dependencies   Duplicates (0)   Blocking (0)   Resources (4)

Fixed   Feature Request   P1   + Add Hotlist

👥 **STATUS UPDATE** No update yet.   Edit

📄 **DESCRIPTION** ro...@google.com created issue #1   Sep 4, 2020 05:17AM   ⋮

People have requested multi-process support for DataStore.

✓ Links (3)   Hide all

🔗 Links (3)

"https://android-review.googlesource.com/2030729"   ap...@ #7
"The feature is 🔗 released to 1.1.0-alpha01 on Nov 9."   zh...@ #8
"Its documentation is also updated at https://developer.android.com/topic/libraries/architecture/datastore"   zh...@ #8

COMMENTS   All comments ▾   ↓ Oldest first

⬤ **ub...@gmail.com** <ub...@gmail.com> #2   Mar 31, 2021 08:12PM   ⋮

For my multi-process use case I would need read/write access to a DataStore file in one process, and read access only in
another process. The `DataStore.data` flow in the second process should emit a new value after `DataStore.update()` in the
first process has committed the new data to the filesystem.

⬤ **ub...@gmail.com** <ub...@gmail.com> #3   Mar 31, 2021 10:47PM   ⋮

... The two processes are part of a single app.

⬤ **ro...@google.com** <ro...@google.com> #4   Apr 7, 2021 10:39AM   ⋮

Thanks for the info. That sounds like a reasonable use case and we plan to support it in the future, but we are not yet sure
when.

⬤ **di...@gmail.com** <di...@gmail.com> #5   Dec 25, 2021 06:57AM   ⋮

I also need this feature!

⬤ **ol...@gmail.com** <ol...@gmail.com> #6   Feb 7, 2022 07:47PM   ⋮

And me too. My use case: application consist from Activity and Bound Service. App config stored in datastore. Config can be
changed from Activity. Service should get actual config on every connection. But service get new values only after restart.

⬤ **ro...@google.com** <ro...@google.com>   Feb 18, 2022 09:11AM   ⋮

Reassigned to zh...@google.com.

⬤ **ap...@google.com** <ap...@google.com> #7   Apr 16, 2022 03:19AM   ⋮

Project: platform/frameworks/support
Branch: androidx-main

commit 2c55c417d997f93445f00b7f6a12d0f4ee4dacd7
Author: Zhiyuan Wang <zhiyuanwang@google.com>
Date: Wed Mar 16 18:29:14 2022

    Init implementation for shared_counter and jni in datastore-multiprocess
    Test: Test functionalities in kotlin
    Bug: b/167700860
    Relnote: N/A

    Change-Id: I4f07c9e28ceaa5a62aa80aedff260b15d35b1c3b

Reporter   ⬤ ro...@google.com

Type   Feature Request

Priority   P1

Severity   S2

Status   Fixed

Access   Default access   View

Expanded Access ⑦

Assignee   ⬤ zh...@google.com

Verifier   --

Collaborators 👥 _____ ︿

CC   👤 _____ ︿
                    he...@google.com
                    ni...@google.com
                    ro...@google.com
                    sh...@google.com

AOSP ID   --

Estimate   --

Found In   --

Targeted To   --

Verified In   --

In Prod   ◯

Show 1 additional field ﹀

A   datastore/datastore-multiprocess/src/main/cpp/shared_counter.h
M   settings.gradle
M   datastore/OWNERS
A   datastore/datastore-multiprocess/src/main/cpp/shared_counter.cc
A   datastore/datastore-multiprocess/src/main/cpp/CMakeLists.txt
A   datastore/datastore-multiprocess/src/main/AndroidManifest.xml
A   datastore/datastore-multiprocess/src/main/java/androidx/datastore/multiprocess/SharedCounter.kt
A   datastore/datastore-multiprocess/api/current.txt
A   datastore/datastore-multiprocess/build.gradle
A   datastore/datastore-multiprocess/src/androidTest/java/androidx/datastore/multiprocess/SharedCounterTest.kt
M   docs-tip-of-tree/build.gradle
A   datastore/datastore-multiprocess/api/res-current.txt
A   datastore/datastore-multiprocess/api/public_plus_experimental_current.txt
A   datastore/datastore-multiprocess/api/restricted_current.txt
A   datastore/datastore-multiprocess/src/main/cpp/jni/androidx_datastore_multiprocess_SharedCounter.cc

https://android-review.googlesource.com/2030729

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zh...@google.com <zh...@google.com> #8   Nov 12, 2022 08:04AM   ⋮

Marked as fixed.

The feature is ⊖released to `1.1.0-alpha01` on Nov 9.

Its documentation is also updated at https://developer.android.com/topic/libraries/architecture/datastore

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ma...@marcardar.com <ma...@marcardar.com> #9   Aug 1, 2023 05:40PM   ⋮

Curious why 15 months on from this commit, datastore is still at 1.1.0alpha04?