📁 Android Public Tracker > App Development > Jetpack (androidx) > WorkManager   157223348 ▼

← C ☆ Unique work chain sometimes gets stuck in the ENQUEUED state   +1 Hotlists (1) Mark as Duplicate 🔔 ⋮

Comments (16)   Dependencies   Duplicates (0)   Blocking (0)   Resources (1)

Can't Repro   Bug   P3   + Add Hotlist

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

📄 **DESCRIPTION** m....@gmail.com created issue #1

Component used: androidx.work:work-runtime Version used: 2.3.4 Devices/Android versions reproduced on: Android 6.0.1

I'm able to reproduce a situation where one of the tasks in a unique work chain gets stuck in the ENQUEUED state forever. Logs say the following, and then nothing happens:

```
05-22 15:43:47.074 12527-12549/? D/WM-SystemJobScheduler: Scheduling work ID 8a41e0e1-8d4f-4910-916c-36a594f6c463 Job ID 54
05-22 15:43:47.076 12527-12549/? D/WM-SystemJobScheduler: Scheduling work ID 8a41e0e1-8d4f-4910-916c-36a594f6c463 Job ID 55
05-22 15:43:47.080 12527-12552/? E/WM-EnqueueRunnable: Prerequisite 962175f7-801a-423f-88e5-7bd666e0d64f doesn't exist; not enqueuing
```

This seems to happen when having two or more tasks in the chain, and the first one succeeds while the second one fails.

With the attached project I'm able to reproduce the issue consistently on an Android 6.0.1 device. I'm unable to reproduce the same behaviour on an Android 10 phone.

Steps to reproduce:

- Launch the attached app
- While Task2 is running (it runs for ~60 seconds), kill the application with the Stop button in Android Studio
- Launch the app again, and observe that Task2 doesn't resume and stays in the ENQUEUED state

Thanks!

📎 **WorkManagerBug.zip**
8.5 MB Download

✓ **Links (1)**

🔗 **Links (1)**

"For the task which remains ENQUEUED what does adb shell dumpsys jobscheduler tell you ? For more information please look at https://developer.android.com/topic/libraries/architecture/workman

COMMENTS

⚪ **m....@gmail.com** <m....@gmail.com> #2

Addition: changing the `ExistingWorkPolicy` from `KEEP` to `REPLACE` makes the job start at the second launch. This is not acceptable for my use case though...

⚪ **su...@google.com** <su...@google.com> #3

What is your enqueue logic? And how is it enqueued?

⚪ **m....@gmail.com** <m....@gmail.com> #4

Hum, sorry, did you see the attached project?

Here's an excerpt:

```
final String uniqueWorkname = "MY_JOB";

OneTimeWorkRequest task1 = new OneTimeWorkRequest.Builder(Task1.class)
        .setConstraints(new Constraints.Builder().setRequiresStorageNotLow(true).build())
        .build();

OneTimeWorkRequest task2 = new OneTimeWorkRequest.Builder(Task2.class)
        .setConstraints(new Constraints.Builder().setRequiredNetworkType(NetworkType.CONNECTED).build())
        .setBackoffCriteria(BackoffPolicy.EXPONENTIAL, OneTimeWorkRequest.MIN_BACKOFF_MILLIS, TimeUnit.MILLISECONDS)
        .build();

WorkManager.getInstance(getApplicationContext())
        .beginUniqueWork(uniqueWorkname, ExistingWorkPolicy.KEEP, task1)
        .then(task2)
        .enqueue();
```

I haven't tested without those constraints and the backoff criteria.

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su...@google.com <su...@google.com> #5

Just out of curiosity, can you reproduce this problem when you don't use the STOP feature in Android Studio? (Closing the app normally?) I have a feeling that this is something to do with Stu

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ra...@google.com <ra...@google.com> #6

I looked at your code. Your `Worker` is not getting `ENQUEUED` at all because prerequisites are missing as in the log message.

The reason is that you are doing this:

```
WorkManager.getInstance(getApplicationContext())
        .beginUniqueWork(uniqueWorkname, ExistingWorkPolicy.KEEP, task1)
        .then(task2)
        .enqueue();
```

When you use `KEEP` if there is unfinished work with that name already, then `task1` **will never be enqueued**. In such cases, `task2` won't be enqueued either (because `task2` defines a depend

What you want to do here instead is:

```
WorkManager.getInstance(context)
   .enqueueUniqueWork(name, ExistingWorkPolicy.APPEND, task2);
```

Also, remember `task2` will only be executed if `task1` was successful.

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m....@gmail.com <m....@gmail.com> #7

Unfortunately the device I'm using to test is a non-touch embedded device which doesn't seem to have a way to open the recent tasks menu. For what it's worth, I tried running `System.exit(`

Regarding comment 6, I should however mention that if I query the WorkInfos for the unique task, I actually see that `Task2` is marked as ENQUEUED, and `Task1` seems to exist. This is my ou

```
05-26 20:33:27.973 13737-13737/? I/MainActivity: Status for worker MY_JOB changed
05-26 20:33:27.973 13737-13737/? I/MainActivity:    Task 957fa018-5453-41e1-a960-7e65c4736dda
05-26 20:33:27.973 13737-13737/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-26 20:33:27.973 13737-13737/? I/MainActivity:       Attempts: 1
05-26 20:33:27.973 13737-13737/? I/MainActivity:       State: ENQUEUED
05-26 20:33:27.973 13737-13737/? I/MainActivity:    Task e211b587-39b1-432f-97e9-8ce095c4d19e
05-26 20:33:27.973 13737-13737/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-26 20:33:27.973 13737-13737/? I/MainActivity:       Attempts: 1
05-26 20:33:27.973 13737-13737/? I/MainActivity:       State: SUCCEEDED
```

Moreover, as mentioned, if I run the same exact code on my Android 10 phone and perform the same actions, when relaunching the app after stopping it I see that `Task2` actually runs (as ex

Am I missing something?

Thanks for the support!

---

ra...@google.com <ra...@google.com> #8

Yes, that too is expected. The first time `task2` will get `ENQUEUED` because there are no `WorkRequest`s with the unique name you are using. Once there work requests with that name, subseq

For the task which remains `ENQUEUED` what does `adb shell dumpsys jobscheduler` tell you ? For more information please look at https://developer.android.com/topic/libraries/architectu

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ra...@google.com <ra...@google.com> #9

Sorry, you said that you can only reproduce this on an Android 6.0 device right ? Let me try reproducing this on my end as well.

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m....@gmail.com <m....@gmail.com> #10

`adb shell dumpsys jobscheduler` doesn't seem to be very useful, actually. Not sure if it's because of the Android version?

```
adb shell dumpsys jobscheduler
Started users: u0
Registered jobs:
  391..:[ComponentInfo{eu.txc2.mrbox.workmanagerbug/androidx.work.impl.background.systemjob.SystemJobService}, jId=15,u0,R=(-16:20,none),N=1,C=false,I=fals
  416..:[ComponentInfo{eu.txc2.mrbox.workmanagerbug/androidx.work.impl.background.systemjob.SystemJobService}, jId=16,u0,R=(-16:20,none),N=1,C=false,I=fals
  450..:[ComponentInfo{com.android.vending/com.google.android.finsky.instantapps.metrics.LogFlushJob}, jId=165064389,u0,R=(-02:38,-02:08),N=0,C=false,I=fal
  563..:[ComponentInfo{android/com.android.server.pm.BackgroundDexOptService}, jId=800,u0,R=(-25:13,none),N=0,C=true,I=true,F=0,P=false,ANI=true]
  156..:[ComponentInfo{android/com.android.server.backup.FullBackupJob}, jId=20536,u0,R=(none,none),N=2,C=true,I=true,F=0,P=false,ANI=true]
  163..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9010,u0,R=(none,22:2
  170..:[ComponentInfo{android/com.android.server.backup.KeyValueBackupJob}, jId=20537,u0,R=(3:36:43,23:34:51),N=1,C=true,I=false,F=0,P=false,ANI=true]
  185..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9009,u0,R=(none,22:3
  187..:[ComponentInfo{com.android.providers.downloads/com.android.providers.downloads.DownloadIdleService}, jId=1,u0,R=(-25:12,23:34:47),N=0,C=true,I=true
  189..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9003,u0,R=(none,22:2
```

```
      208..:[ComponentInfo{android/com.android.server.MountServiceIdler}, jId=808, u0, R=(6:09:46, none), N=0, C=true, I=true, F=0, P=false, ANI=true]
      210..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9004, u0, R=(11:35:04,
      248..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9002, u0, R=(none, 22:3
      249..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9011, u0, R=(11:35:04,

    Conn.
    connected: false unmetered: false
    170..: C=true, UM=false
    189..: C=true, UM=false
    163..: C=true, UM=false
    391..: C=true, UM=false
    416..: C=true, UM=false
    156..: C=false, UM=true

    Alarms (1539341)
    Next delay alarm in -158s
    Next deadline alarm in -128s
    Tracking:
    450..: (1381266, 1411266)
    210..: (43244131, 44144131)
    249..: (43244134, 44144134)
    189..: (N/A, 82005556)
    163..: (N/A, 82005559)
    248..: (N/A, 82982254)
    185..: (N/A, 82982257)
    187..: (26899, 86426899)
    170..: (14543172, 86430763)
    208..: (23725818, N/A)

    Idle: false
    6
      563..
      187..
      208..
      248..
      185..
      156..

    Batt.
    Stable power: true
    56371641, 187242093, 208272839, 170794520, 156489058

    AppIdle
    Parole On: false
    android:idle=false, com.android.providers.downloads:idle=false, android:idle=false, android:idle=false, com.android.vending:idle=false, com.android.vendin

    Pending:

    Active jobs:

    mReadyToRock=true
    mDeviceIdleMode=false
```

Yes, only on an Android 6.0 device. I haven't tried with other Android 6 devices/emulator for now.

ra...@google.com <ra...@google.com> #11

So your min-sdk is `23` and you should therefore be using `JobScheduler` under the hood.

I cannot reproduce the problem on my end. I stop the app, and when I bring it back the app will eventually execute the `Worker` after the retry duration has passed.

Here is an example run:

```
05-26 12:11:58.914  5077  5077 I MainActivity: Status for worker MY_JOB changed
05-26 12:11:58.914  5077  5077 I MainActivity:   Task 50538e66-cef3-4d9e-904d-e0339129f77f
05-26 12:11:58.914  5077  5077 I MainActivity:      Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-26 12:11:58.914  5077  5077 I MainActivity:      Attempts: 1
05-26 12:11:58.914  5077  5077 I MainActivity:      State: SUCCEEDED
05-26 12:11:58.914  5077  5077 I MainActivity:   Task 78c06be2-a235-4d0a-bcdb-d6c24309e4b1
05-26 12:11:58.914  5077  5077 I MainActivity:      Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-26 12:11:58.914  5077  5077 I MainActivity:      Attempts: 1
05-26 12:11:58.914  5077  5077 I MainActivity:      State: SUCCEEDED
05-26 12:11:58.915  5077  5077 I MainActivity: Status for worker MY_JOB changed
05-26 12:11:58.915  5077  5077 I MainActivity:   Task 50538e66-cef3-4d9e-904d-e0339129f77f
05-26 12:11:58.915  5077  5077 I MainActivity:      Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-26 12:11:58.915  5077  5077 I MainActivity:      Attempts: 1
05-26 12:11:58.915  5077  5077 I MainActivity:      State: SUCCEEDED
05-26 12:11:58.915  5077  5077 I MainActivity:   Task 78c06be2-a235-4d0a-bcdb-d6c24309e4b1
05-26 12:11:58.915  5077  5077 I MainActivity:      Tag: eu.txc2.mrbox.workmanagerbug.Task2
```

```
05-26 12:11:58.915  5077  5077 I MainActivity:       Attempts: 1
05-26 12:11:58.915  5077  5077 I MainActivity:       State: SUCCEEDED
05-26 12:11:58.916  5077  5077 I MainActivity: Status for worker MY_JOB changed
05-26 12:11:58.916  5077  5077 I MainActivity:    Task 50538e66-cef3-4d9e-904d-e0339129f77f
05-26 12:11:58.916  5077  5077 I MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-26 12:11:58.916  5077  5077 I MainActivity:       Attempts: 1
05-26 12:11:58.916  5077  5077 I MainActivity:       State: SUCCEEDED
05-26 12:11:58.916  5077  5077 I MainActivity:    Task 78c06be2-a235-4d0a-bcdb-d6c24309e4b1
05-26 12:11:58.916  5077  5077 I MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-26 12:11:58.916  5077  5077 I MainActivity:       Attempts: 1
05-26 12:11:58.916  5077  5077 I MainActivity:       State: SUCCEEDED
05-26 12:11:58.917  5077  5077 I MainActivity: Status for worker MY_JOB changed
05-26 12:11:58.917  5077  5077 I MainActivity:    Task 50538e66-cef3-4d9e-904d-e0339129f77f
05-26 12:11:58.917  5077  5077 I MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-26 12:11:58.917  5077  5077 I MainActivity:       Attempts: 1
05-26 12:11:58.917  5077  5077 I MainActivity:       State: SUCCEEDED
05-26 12:11:58.917  5077  5077 I MainActivity:    Task 78c06be2-a235-4d0a-bcdb-d6c24309e4b1
05-26 12:11:58.917  5077  5077 I MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-26 12:11:58.917  5077  5077 I MainActivity:       Attempts: 1
05-26 12:11:58.917  5077  5077 I MainActivity:       State: SUCCEEDED
05-26 12:11:58.917  5077  5077 I MainActivity: Status for worker MY_JOB changed
05-26 12:11:58.917  5077  5077 I MainActivity:    Task 50538e66-cef3-4d9e-904d-e0339129f77f
05-26 12:11:58.917  5077  5077 I MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-26 12:11:58.917  5077  5077 I MainActivity:       Attempts: 1
05-26 12:11:58.917  5077  5077 I MainActivity:       State: SUCCEEDED
05-26 12:11:58.917  5077  5077 I MainActivity:    Task 78c06be2-a235-4d0a-bcdb-d6c24309e4b1
05-26 12:11:58.917  5077  5077 I MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-26 12:11:58.917  5077  5077 I MainActivity:       Attempts: 1
05-26 12:11:58.917  5077  5077 I MainActivity:       State: SUCCEEDED
05-26 12:12:00.026  2247  2699 D EGL_emulation: eglMakeCurrent: 0x7fc3a78263e0: ver 2 0 (tinfo 0x7fc395522120)
```

ra...@google.com <ra...@google.com> #12

Status: Won't Fix (Not Reproducible)

```
05-26 12:22:48.196  5687  5700 D WM-ForceStopRunnable: Found unfinished work, scheduling it.
05-26 12:22:48.199  5687  5700 D WM-SystemJobScheduler: Scheduling work ID 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a Job ID 6
05-26 12:22:48.200  5687  5700 D WM-SystemJobScheduler: Scheduling work ID 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a Job ID 9
05-26 12:22:48.201  5687  5687 D WM-SystemJobService: onStopJob for 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a
05-26 12:22:48.203  5687  5701 D WM-Processor: Processor: processing 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a
05-26 12:22:48.205  5687  5702 D WM-Processor: Processor stopping background work 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a
05-26 12:22:48.205  5687  5702 D WM-WorkerWrapper: Work interrupted for null
05-26 12:22:48.206  5687  5702 D WM-WorkerWrapper: WorkSpec null is already done. Not interrupting.
05-26 12:22:48.206  5687  5702 D WM-Processor: WorkerWrapper interrupted for 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a
05-26 12:22:48.206  5687  5702 D WM-StopWorkRunnable: StopWorkRunnable for 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a; Processor.stopWork = true
05-26 12:22:48.206  5687  5687 D WM-Processor: Processor 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a executed; reschedule = true
05-26 12:22:48.207  5687  5702 D WM-WorkerWrapper: Work interrupted for Work [ id=0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a, tags={ eu.txc2.mrbox.workmanagerbu
05-26 12:22:53.210  5687  5687 D WM-SystemJobService: onStartJob for 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a
05-26 12:22:53.210  5687  5701 D WM-Processor: Processor: processing 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a
05-26 12:22:53.211  5687  5687 D WM-SystemJobService: Job is already being executed by SystemJobService: 0cd1ec7f-3951-4e6c-9d5d-64e1e067bd6a
05-26 12:22:53.217  5687  5687 D WM-WorkerWrapper: Starting work for eu.txc2.mrbox.workmanagerbug.Task2
05-26 12:22:53.218  5687  5703 I Task2    : I'm the worker 1
05-26 12:22:54.259  5687  5703 I Task2    : I'm the worker 2
05-26 12:22:55.299  5687  5703 I Task2    : I'm the worker 3
05-26 12:22:56.339  5687  5703 I Task2    : I'm the worker 4
```

Here are some more logs. Everything here is working as expected.

m....@gmail.com <m....@gmail.com> #13

Thanks. I tried with the emulator and indeed I'm unable to reproduce the problem there.

However this still happens consistently on the physical device.

Do you have any insight on why this is happening, perhaps? That would be quite helpful.

Cheers!

ra...@google.com <ra...@google.com> #14

Can you please send us more logs when the `Worker` gets stuck ? All `WorkManager` 's logs are prefixed with `WM-` . Please set the log level to `Log.DEBUG` .

`adb shell dumpsys jobscheduler` will also help in addition to logs.

m....@gmail.com <m....@gmail.com> #15

Here are the logs of the first execution. At the end the process is stopped through Android Studio.

```
05-27 18:07:25.715 18481-18481/? I/art: Late-enabling -Xcheck:jni
05-27 18:07:25.715 18481-18481/? I/art: Late-enabling JIT
05-27 18:07:25.724 18481-18481/? I/art: JIT created with code_cache_capacity=2MB compile_threshold=1000
05-27 18:07:25.739 18481-18488/? E/art: Failed sending reply to debugger: Broken pipe
05-27 18:07:25.739 18481-18488/? I/art: Debugger is no longer active
05-27 18:07:25.748 18481-18481/? W/System: ClassLoader referenced unknown path: /data/app/eu.txc2.mrbox.workmanagerbug-1/lib/arm
05-27 18:07:25.776 18481-18481/? W/art: Before Android 4.1, method android.graphics.PorterDuffColorFilter androidx.vectordrawable.graphics.drawable.Vector
05-27 18:07:25.800 18481-18481/? I/art: Rejecting re-init on previously-failed class java.lang.Class<androidx.core.view.ViewCompat$2>
05-27 18:07:25.800 18481-18481/? I/art: Rejecting re-init on previously-failed class java.lang.Class<androidx.core.view.ViewCompat$2>
05-27 18:07:25.876 18481-18481/? D/WM-PackageManagerHelper: androidx.work.impl.background.systemjob.SystemJobService enabled
05-27 18:07:25.876 18481-18481/? D/WM-Schedulers: Created SystemJobScheduler and enabled SystemJobService
05-27 18:07:25.881 18481-18498/? D/WM-ForceStopRunnable: Performing cleanup operations.
05-27 18:07:25.891 18481-18499/? D/OpenGLRenderer: Use EGL_SWAP_BEHAVIOR_PRESERVED: true
05-27 18:07:25.925 18481-18504/? D/WM-PackageManagerHelper: androidx.work.impl.background.systemalarm.RescheduleReceiver enabled
05-27 18:07:25.937 18481-18504/? D/WM-SystemJobScheduler: Scheduling work ID 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642 Job ID 18
05-27 18:07:25.940 18481-18504/? D/WM-SystemJobScheduler: Scheduling work ID 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642 Job ID 19
05-27 18:07:25.945 18481-18504/? D/WM-GreedyScheduler: Starting tracking for [2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642]
05-27 18:07:25.947 18481-18504/? D/WM-ConstraintTracker: StorageNotLowTracker: initial state = true
05-27 18:07:25.948 18481-18504/? D/WM-BrdcstRcvrCnstrntTrc: StorageNotLowTracker: registering receiver
05-27 18:07:25.948 18481-18504/? D/WM-WorkConstraintsTrack: Constraints met for 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:25.948 18481-18504/? D/WM-GreedyScheduler: Constraints met: Scheduling work ID 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:25.961 18481-18505/? D/WM-Processor: Processor: processing 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:25.975 18481-18499/? D/libEGL: loaded /vendor/lib/egl/libGLES_mali.so
05-27 18:07:25.993 18481-18499/? I/OpenGLRenderer: Initialized EGL, version 1.4
05-27 18:07:26.000 18481-18499/? D/mali_winsys: EGLint new_window_surface(egl_winsys_display*, void*, EGLSurface, EGLConfig, egl_winsys_surface**, egl_col
05-27 18:07:26.012 18481-18481/? D/WM-WorkerWrapper: Starting work for androidx.work.impl.workers.ConstraintTrackingWorker
05-27 18:07:26.013 18481-18481/? I/MainActivity: Status for worker MY_JOB changed
05-27 18:07:26.013 18481-18481/? I/MainActivity:    Task 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.014 18481-18481/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-27 18:07:26.014 18481-18481/? I/MainActivity:       Attempts: 0
05-27 18:07:26.014 18481-18481/? I/MainActivity:       State: ENQUEUED
05-27 18:07:26.014 18481-18481/? I/MainActivity:    Task 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.014 18481-18481/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-27 18:07:26.014 18481-18481/? I/MainActivity:       Attempts: 0
05-27 18:07:26.014 18481-18481/? I/MainActivity:       State: BLOCKED
05-27 18:07:26.015 18481-18516/? D/WM-WorkConstraintsTrack: Constraints met for 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.015 18481-18516/? D/WM-ConstraintTrkngWrkr: Constraints met for delegate eu.txc2.mrbox.workmanagerbug.Task1
05-27 18:07:26.016 18481-18481/? I/MainActivity: Status for worker MY_JOB changed
05-27 18:07:26.016 18481-18481/? I/MainActivity:    Task 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.016 18481-18481/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-27 18:07:26.016 18481-18481/? I/MainActivity:       Attempts: 1
05-27 18:07:26.016 18481-18481/? I/MainActivity:       State: RUNNING
05-27 18:07:26.016 18481-18481/? I/MainActivity:    Task 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.016 18481-18504/? D/WM-WorkerWrapper: androidx.work.impl.workers.ConstraintTrackingWorker returned a Success {mOutputData=Data {}} result.
05-27 18:07:26.016 18481-18481/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-27 18:07:26.016 18481-18481/? I/MainActivity:       Attempts: 0
05-27 18:07:26.016 18481-18481/? I/MainActivity:       State: BLOCKED
05-27 18:07:26.017 18481-18504/? I/WM-WorkerWrapper: Worker result SUCCESS for Work [ id=2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642, tags={ eu.txc2.mrbox.workma
05-27 18:07:26.019 18481-18504/? I/WM-WorkerWrapper: Setting status to enqueued for 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.027 18481-18504/? D/WM-GreedyScheduler: Cancelling work ID 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.033 18481-18504/? D/WM-SystemJobScheduler: Scheduling work ID 793f9576-c3be-4eb4-bb46-fa6eb0316944 Job ID 20
05-27 18:07:26.035 18481-18504/? D/WM-SystemJobScheduler: Scheduling work ID 793f9576-c3be-4eb4-bb46-fa6eb0316944 Job ID 21
05-27 18:07:26.044 18481-18504/? D/WM-GreedyScheduler: Starting tracking for [793f9576-c3be-4eb4-bb46-fa6eb0316944]
05-27 18:07:26.045 18481-18504/? D/OpenWrtNetUtils: isActiveNetworkMetered(), faking wifi !
05-27 18:07:26.046 18481-18504/? D/WM-ConstraintTracker: NetworkStateTracker: initial state = [ Connected=true Validated=true Metered=false NotRoaming=tru
05-27 18:07:26.046 18481-18504/? D/WM-NetworkStateTracker: Registering broadcast receiver
05-27 18:07:26.047 18481-18504/? D/WM-WorkConstraintsTrack: Constraints met for 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.047 18481-18504/? D/WM-GreedyScheduler: Constraints met: Scheduling work ID 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.047 18481-18504/? D/WM-WorkConstraintsTrack: Constraints met for 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.047 18481-18504/? D/WM-GreedyScheduler: Constraints met: Scheduling work ID 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.048 18481-18504/? D/WM-Processor: Processor stopping background work 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.048 18481-18504/? D/WM-WorkerWrapper: Work interrupted for Work [ id=2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642, tags={ eu.txc2.mrbox.workmanager
05-27 18:07:26.049 18481-18504/? D/WM-WorkerWrapper: WorkSpec {WorkSpec: 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642} is already done. Not interrupting.
05-27 18:07:26.049 18481-18504/? D/WM-Processor: WorkerWrapper interrupted for 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.049 18481-18504/? D/WM-StopWorkRunnable: StopWorkRunnable for 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642; Processor.stopWork = true
05-27 18:07:26.050 18481-18504/? D/WM-Processor: Processor: processing 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.050 18481-18504/? D/WM-Processor: Processor: processing 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.053 18481-18504/? D/WM-WorkerWrapper: Status for 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642 is SUCCEEDED; not doing any work
05-27 18:07:26.053 18481-18504/? D/WM-WorkerWrapper: androidx.work.impl.workers.ConstraintTrackingWorker is not in ENQUEUED state. Nothing more to do.
05-27 18:07:26.104 18481-18481/? D/WM-Processor: Processor 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642 executed; reschedule = false
05-27 18:07:26.105 18481-18481/? D/WM-GreedyScheduler: Stopping tracking for 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.105 18481-18481/? D/WM-WorkConstraintsTrack: Constraints met for 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.105 18481-18481/? D/WM-GreedyScheduler: Constraints met: Scheduling work ID 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.105 18481-18481/? D/WM-NetworkStateTracker: Network broadcast received
05-27 18:07:26.105 18481-18498/? D/WM-Processor: Work 793f9576-c3be-4eb4-bb46-fa6eb0316944 is already enqueued for processing
05-27 18:07:26.106 18481-18481/? D/OpenWrtNetUtils: isActiveNetworkMetered(), faking wifi !
05-27 18:07:26.106 18481-18481/? D/WM-Processor: Processor 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642 executed; reschedule = false
05-27 18:07:26.106 18481-18481/? D/WM-WorkerWrapper: Starting work for eu.txc2.mrbox.workmanagerbug.Task2
05-27 18:07:26.106 18481-18516/? I/Task2: I'm the worker 1
```

```
05-27 18:07:26.111 18481-18481/? I/MainActivity: Status for worker MY_JOB changed
05-27 18:07:26.111 18481-18481/? I/MainActivity:    Task 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:26.111 18481-18481/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-27 18:07:26.111 18481-18481/? I/MainActivity:       Attempts: 1
05-27 18:07:26.111 18481-18481/? I/MainActivity:       State: SUCCEEDED
05-27 18:07:26.111 18481-18481/? I/MainActivity:    Task 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:26.111 18481-18481/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-27 18:07:26.111 18481-18481/? I/MainActivity:       Attempts: 1
05-27 18:07:26.111 18481-18481/? I/MainActivity:       State: RUNNING
05-27 18:07:27.106 18481-18516/eu.txc2.mrbox.workmanagerbug I/Task2: I'm the worker 2
05-27 18:07:28.106 18481-18516/eu.txc2.mrbox.workmanagerbug I/Task2: I'm the worker 3
05-27 18:07:29.107 18481-18516/eu.txc2.mrbox.workmanagerbug I/Task2: I'm the worker 4
05-27 18:07:30.081 18481-18488/eu.txc2.mrbox.workmanagerbug I/art: System.exit called, status: 1
05-27 18:07:30.081 18481-18488/eu.txc2.mrbox.workmanagerbug I/AndroidRuntime: VM exiting with result code 1, cleanup skipped.
```

Here are the logs of the following execution, when the worker gets stuck:

```
05-27 18:07:37.915 18604-18604/? I/art: Late-enabling -Xcheck:jni
05-27 18:07:37.915 18604-18604/? I/art: Late-enabling JIT
05-27 18:07:37.924 18604-18604/? I/art: JIT created with code_cache_capacity=2MB compile_threshold=1000
05-27 18:07:37.941 18604-18611/? E/art: Failed sending reply to debugger: Broken pipe
05-27 18:07:37.941 18604-18611/? I/art: Debugger is no longer active
05-27 18:07:37.950 18604-18604/? W/System: ClassLoader referenced unknown path: /data/app/eu.txc2.mrbox.workmanagerbug-2/lib/arm
05-27 18:07:37.983 18604-18604/? W/art: Before Android 4.1, method android.graphics.PorterDuffColorFilter androidx.vectordrawable.graphics.drawable.Vector
05-27 18:07:38.008 18604-18604/? I/art: Rejecting re-init on previously-failed class java.lang.Class<androidx.core.view.ViewCompat$2>
05-27 18:07:38.008 18604-18604/? I/art: Rejecting re-init on previously-failed class java.lang.Class<androidx.core.view.ViewCompat$2>
05-27 18:07:38.090 18604-18604/? D/WM-PackageManagerHelper: androidx.work.impl.background.systemjob.SystemJobService enabled
05-27 18:07:38.090 18604-18604/? D/WM-Schedulers: Created SystemJobScheduler and enabled SystemJobService
05-27 18:07:38.096 18604-18621/? D/WM-ForceStopRunnable: Performing cleanup operations.
05-27 18:07:38.117 18604-18626/? D/OpenGLRenderer: Use EGL_SWAP_BEHAVIOR_PRESERVED: true
05-27 18:07:38.128 18604-18621/? D/WM-ForceStopRunnable: Found unfinished work, scheduling it.
05-27 18:07:38.134 18604-18621/? D/WM-SystemJobScheduler: Scheduling work ID 793f9576-c3be-4eb4-bb46-fa6eb0316944 Job ID 20
05-27 18:07:38.136 18604-18621/? D/WM-SystemJobScheduler: Scheduling work ID 793f9576-c3be-4eb4-bb46-fa6eb0316944 Job ID 21
05-27 18:07:38.140 18604-18627/? E/WM-EnqueueRunnable: Prerequisite d0b0a005-c031-4b49-a921-0c2176df4e8f doesn't exist; not enqueuing
05-27 18:07:38.199 18604-18626/? D/libEGL: loaded /vendor/lib/egl/libGLES_mali.so
05-27 18:07:38.219 18604-18626/? I/OpenGLRenderer: Initialized EGL, version 1.4
05-27 18:07:38.225 18604-18626/? D/mali_winsys: EGLint new_window_surface(egl_winsys_display*, void*, EGLSurface, EGLConfig, egl_winsys_surface**, egl_col
05-27 18:07:38.332 18604-18604/? I/MainActivity: Status for worker MY_JOB changed
05-27 18:07:38.332 18604-18604/? I/MainActivity:    Task 2d6e1ff1-f33d-4f3c-88e4-2ee7bda0f642
05-27 18:07:38.332 18604-18604/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task1
05-27 18:07:38.332 18604-18604/? I/MainActivity:       Attempts: 1
05-27 18:07:38.332 18604-18604/? I/MainActivity:       State: SUCCEEDED
05-27 18:07:38.332 18604-18604/? I/MainActivity:    Task 793f9576-c3be-4eb4-bb46-fa6eb0316944
05-27 18:07:38.332 18604-18604/? I/MainActivity:       Tag: eu.txc2.mrbox.workmanagerbug.Task2
05-27 18:07:38.332 18604-18604/? I/MainActivity:       Attempts: 1
05-27 18:07:38.332 18604-18604/? I/MainActivity:       State: ENQUEUED
05-27 18:07:55.754 18604-18611/eu.txc2.mrbox.workmanagerbug I/art: System.exit called, status: 1
05-27 18:07:55.754 18604-18611/eu.txc2.mrbox.workmanagerbug I/AndroidRuntime: VM exiting with result code 1, cleanup skipped.
```

Here's the output of that command:

```
C:\Users\mcont>adb shell dumpsys jobscheduler
Started users: u0
Registered jobs:
  280..:[ComponentInfo{eu.txc2.mrbox.workmanagerbug/androidx.work.impl.background.systemjob.SystemJobService}, jId=21, u0, R=(-00:55, none), N=1, C=false, I=fals
  576..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9004, u0, R=(none, 1:18
  121..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9011, u0, R=(8:11:01, 8
  300..:[ComponentInfo{android/com.android.server.MountServiceIdler}, jId=808, u0, R=(8:51:21, none), N=0, C=true, I=true, F=0, P=false, ANI=true]
  300..:[ComponentInfo{eu.txc2.mrbox.workmanagerbug/androidx.work.impl.background.systemjob.SystemJobService}, jId=20, u0, R=(-00:55, none), N=1, C=false, I=fals
  305..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9003, u0, R=(8:11:01, 8
  434..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9000, u0, R=(none, 1:18
  462..:[ComponentInfo{android/com.android.server.backup.FullBackupJob}, jId=20536, u0, R=(none, none), N=2, C=true, I=true, F=0, P=false, ANI=true]
  488..:[ComponentInfo{android/com.android.server.pm.BackgroundDexOptService}, jId=800, u0, R=(-3:49:12, none), N=0, C=true, I=true, F=0, P=false, ANI=true]
  490..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9001, u0, R=(-3:47:01,
  654..:[ComponentInfo{com.android.providers.downloads/com.android.providers.downloads.DownloadIdleService}, jId=1, u0, R=(-3:49:12, 20:10:47), N=0, C=true, I=tr
  101..:[ComponentInfo{android/com.android.server.backup.KeyValueBackupJob}, jId=20537, u0, R=(20:21, 20:10:48), N=1, C=true, I=false, F=0, P=false, ANI=true]
  188..:[ComponentInfo{com.android.vending/com.google.android.finsky.scheduler.JobSchedulerEngine$PhoneskyJobSchedulerJobService}, jId=9005, u0, R=(-3:47:01,

Conn.
connected: false unmetered: false
101..: C=true, UM=false
490..: C=true, UM=false
188..: C=true, UM=false
300..: C=true, UM=false
280..: C=true, UM=false
462..: C=false, UM=true

Alarms (13779659)
Next delay alarm in 1221s
```

```
Next deadline alarm in 4717s
Tracking:
434..: (N/A, 18496926)
576..: (N/A, 18496929)
305..: (43241203, 44141203)
121..: (43241204, 44141204)
490..: (158347, 60720231)
188..: (158350, 60720234)
654..: (27572, 86427572)
101..: (15001161, 86428266)
300..: (45660903, N/A)

Idle: false
6
  300..
  488..
  654..
  434..
  576..
  462..

Batt.
Stable power: true
30039410, 48814279, 65453924, 101569526, 46234231

AppIdle
Parole On: false
android:idle=false, android:idle=false, com.android.providers.downloads:idle=false, android:idle=false, com.android.vending:idle=false, com.android.vendin

Pending:

Active jobs:

mReadyToRock=true
mDeviceIdleMode=false
```

Thank you!

ra...@google.com <ra...@google.com> #16

Looking at the results of `adb shell dumpsys jobscheduler` - there are backing jobs. They will eventually be executed. `JobScheduler` backs off scheduling jobs on processes that tend to

```
280..:[ComponentInfo{eu.txc2.mrbox.workmanagerbug/androidx.work.impl.background.systemjob.SystemJobService},jId=21,u0,R=
(-00:55,none),N=1,C=false,I=false,F=0,P=false,ANI=true]

300..:[ComponentInfo{eu.txc2.mrbox.workmanagerbug/androidx.work.impl.background.systemjob.SystemJobService},jId=20,u0,R=(-00:55,none),N=1,C=false,I=false,
```