

Figure - Bug #111677

测试 Test-IT # 110867 (New): V1.0测试功能汇总

测试 Test-IT # 110887 (New): AF-V1.0功能测试-手势-任务管理器

【AF】【EVT】【手势交互】-底部上滑无法打开任务管理器

2022-09-02 10:47 - CDTs_TEST 王成

Status:	CLOSED	Start date:	2022-09-02
Priority:	High	Due date:	2022-09-04
Assignee:	CD Test赵飞	% Done:	100%
Category:	CD-APP	Estimated time:	0.00 hour
Target version:		Found Version:	-
Need_Info:		Degrated:	
Resolution:	FIXED	Verified Version:	
Severity:	Critical	Fixed Version:	2022-09-03
Reproducibility:	Every time	Root cause:	编码问题
Test Type:	CT		
Description			
测试版本：FlatBuild_VX1_MCE_xx.xx_FSE.R.userdebug.0.0.0.20220901.alpha_008.zip			
【前提条件】			
1、设备已开机			
2、处于桌面或任意一个应用页面			
【测试步骤】			
1、手指从屏幕底部向上滑动并短暂停留			
2、使用投屏工具显示画面，用鼠标从底部向上滑动并短暂停留，模拟屏幕上的触控			
【预期结果】			
屏幕上的操作和投屏工具上的操作，都能打开任务管理器			
【实际结果】			
1、以上操作均无法打开任务管理器			
2、8.31号的DB版本，该功能正常可用（FlatBuild_VX1_MCE_xx.xx_FSE.D.userdebug.0.0.0.20220831.alpha.zip）			
【复现率】			
必现			

History

#1 - 2022-09-02 11:46 - CD Test赵飞

- Tracker changed from 测试 Test-IT to Bug

#2 - 2022-09-02 18:23 - CD FW-王伟

- Assignee changed from CD FW-王伟 to CD APP-王营

- Severity set to Critical

- Reproducibility set to Every time

- Test Type set to CT

- Found Version set to -

#3 - 2022-09-02 18:40 - CD FW-鲁凯峰

■ Current state

底部无法上滑打开历史记录界面是由于SystemUI默认把QuickSettings展开显示了，导致Launcher滑动时判断出错，没有对手势进行处理。

■ My Analyze

当在Launcher的底部向上滑动的时候，首先收到Input事件的在TouchInteractionService#onInputEvent

TouchInteractionService#onInputEvent

1.当收到ACTION_DOWN事件的时候，会调用newConsumer去创建一个新的InputConsumer对象

```
private void onInputEvent(InputEvent ev) {
    ...
    if (action == ACTION_DOWN || isMultiPointer) {
        ...
        if (!mDeviceState.isOneHandedModeActive()
            && mRotationTouchHelper.isInSwipeUpTouchRegion(event) || isMultiPointer) {
            // Clone the previous gesture state since onConsumerAboutToBeSwitched might trigger
            // onConsumerInactive and wipe the previous gesture state
            ...
            mConsumer = newConsumer(prevGestureState, mGestureState, event); // 创建新的InputConsumer对象

            ActiveGestureLog.INSTANCE.addLog("setInputConsumer: " + mConsumer.getName());
            mUncheckedConsumer = mConsumer; // 赋值给mUncheckedConsumer
        }
        //回调给对应的InputConsumer
        mUncheckedConsumer.onMotionEvent(event);
        ....
    }
}
```

2. 在newConsumer创建新的InputConsumer对象时，会根据canStartSystemGesture的状态来判断是否要创建一个新的InputConsumer对象，还是获取默认的InputConsumer对象

```
private InputConsumer newConsumer(GestureState previousGestureState,
    GestureState newGestureState, MotionEvent event) {
    boolean canStartSystemGesture = mDeviceState.canStartSystemGesture();
    ...
    // When there is an existing recents animation running, bypass systemState check as this is
    // a followup gesture and the first gesture started in a valid system state.
    InputConsumer base = canStartSystemGesture
        || previousGestureState.isRecentsAnimationRunning()
        ? newBaseConsumer(previousGestureState, newGestureState, event)
        : getDefaultInputConsumer();
}
```

对比正常和非正常的现象,canStartSystemGesture的值不一样

正常情况:canStartSystemGesture = true

非正常情况:canStartSystemGesture = false

3.在canStartSystemGesture的判断中,会根据mSystemUiStateFlags的状态来判断是否可以开始系统手势的处理

```

public boolean canStartSystemGesture() {
    boolean canStartWithNavHidden = (mSystemUiStateFlags & SYSUI_STATE_NAV_BAR_HIDDEN) == 0
        || (mSystemUiStateFlags & SYSUI_STATE_ALLOW_GESTURE_IGNOREING_BAR_VISIBILITY) != 0
        || mRotationTouchHelper.isTaskListFrozen();
    return canStartWithNavHidden
        && (mSystemUiStateFlags & SYSUI_STATE_NOTIFICATION_PANEL_EXPANDED) == 0
        && (mSystemUiStateFlags & SYSUI_STATE_QUICK_SETTINGS_EXPANDED) == 0
        && (mSystemUiStateFlags & SYSUI_STATE_MAGNIFICATION_OVERLAP) == 0
        && ((mSystemUiStateFlags & SYSUI_STATE_HOME_DISABLED) == 0
            || (mSystemUiStateFlags & SYSUI_STATE_OVERVIEW_DISABLED) == 0);
}

```

通过对比正常和非正常的情况的log可以看出,SYSUI_STATE_QUICK_SETTINGS_EXPANDED是不一样的

非正常情况:

```

09-02 03:35:22.235 11275 11275 D TouchInteractionService: onInputEvent : 0
09-02 03:35:22.239 11275 11275 D lukaifeng: canStartWithNavHidden : true
09-02 03:35:22.240 11275 11275 D lukaifeng: SYSUI_STATE_NOTIFICATION_PANEL_EXPANDED : true
09-02 03:35:22.240 11275 11275 D lukaifeng: SYSUI_STATE_QUICK_SETTINGS_EXPANDED : false
09-02 03:35:22.240 11275 11275 D lukaifeng: SYSUI_STATE_MAGNIFICATION_OVERLAP : true
09-02 03:35:22.240 11275 11275 D lukaifeng: SYSUI_STATE_HOME_DISABLED : true
09-02 03:35:22.240 11275 11275 D lukaifeng: SYSUI_STATE_OVERVIEW_DISABLED : true
09-02 03:35:22.240 11275 11275 D lukaifeng: canStartSystemGesture : false

```

正常情况:

```

09-02 03:34:24.493 11275 11275 D lukaifeng: canStartWithNavHidden : true
09-02 03:34:24.493 11275 11275 D lukaifeng: SYSUI_STATE_NOTIFICATION_PANEL_EXPANDED : true
09-02 03:34:24.493 11275 11275 D lukaifeng: SYSUI_STATE_QUICK_SETTINGS_EXPANDED : true
09-02 03:34:24.494 11275 11275 D lukaifeng: SYSUI_STATE_MAGNIFICATION_OVERLAP : true
09-02 03:34:24.494 11275 11275 D lukaifeng: SYSUI_STATE_HOME_DISABLED : true
09-02 03:34:24.494 11275 11275 D lukaifeng: SYSUI_STATE_OVERVIEW_DISABLED : true
09-02 03:34:24.494 11275 11275 D lukaifeng: canStartSystemGesture : true

```

SYSUI_STATE_QUICK_SETTINGS_EXPANDED是由SystemUI设置的，这个因为SystemUI布局的调整要把Quick Settings Pannel默认打开，所以造成mSystemUiStateFlags & SYSUI_STATE_QUICK_SETTINGS_EXPANDED != 0

整个上滑动流程如下:

```

TouchInteractionService#onInputEvent
OverviewInputConsumer#onMotionEvent
BaseDragLayer#proxyTouchEvent
BaseDragLayer.java#findControllerToHandleTouch
NoButtonQuickSwitchTouchController.java#onControllerTouchEvent
BaseSwipeDetector.java#onTouchEvent
BaseSwipeDetector.java#setState
NoButtonQuickSwitchTouchController#setupAnimators

```

■ Submit UR

在Launcher中去掉SYSUI_STATE_QUICK_SETTINGS_EXPANDED的判断

<https://dev.thundercomm.com/gerrit/c/general/platform/packages/apps/Launcher3/+/146453>

#4 - 2022-09-03 00:08 - CD APP-王营

- Status changed from New to RESOLVED
- Assignee changed from CD APP-王营 to CD Test赵飞
- % Done changed from 0 to 80
- Fixed Version set to 2022-09-03

此问题已修复，代码已入库，请在0903的DB版本上验证此问题。

#5 - 2022-09-03 11:31 - CDTS_TEST 王成

- Status changed from RESOLVED to VERIFIED
- % Done changed from 80 to 100

#6 - 2022-09-03 11:31 - CDTS_TEST 王成

- Status changed from VERIFIED to CLOSED

#7 - 2022-09-14 11:40 - CD TPM-申艳艳

- Category set to CD-APP

#8 - 2022-12-22 20:28 - CD FW-王伟

Gerrit Merge Information :

ID	Project	Branch	Uploader
146453	general/platform/packages/apps/Launcher3	Pre_figure_turbox-c2130c-la1.1-qssi12-dev	ying.wang@thundersoft.com
FW: Launcher: Fix gesture can not open Recent1.Fix gesture can not open Recent.TC-RID: 1201-0205302IssueID: TS-R-BUG-111677Change-Id: I5f993ff9f3c9baa2134b4e8e254fa9e9e3a272ad			

#9 - 2022-12-27 16:33 - CD APP-王营

- Resolution set to FIXED
- Root cause set to 编码问题

Files			
tpfail-9.1.log	815 KB	2022-09-02	CDTS_TEST 王成