

	<b>ri@ffw.com</b> <ri@ffw.com> #3</ri@ffw.com>
	I get the same crash when using scrcpy to mirror my device and then typing ö on my PC's keyboard
	<b>ja@deepl.com</b> <ja@deepl.com> <u>#4</u></ja@deepl.com>
	I think this is the real issue. I have the same behavior.
	Crashes for the german Umlauts ä, ö and ü
	Sadly I cannot edit my bugreport not the title
	si@google.com <si@google.com><u>#5</u></si@google.com>
	Thanks for the report. I updated the title.
	I manually tested on samsung s8 and samsung fold 2 with German soft keyboard by entering umlauts mentioned, but couldn't reproduce.
	Will try with srccpy soon/later however the error happening in AbstractStringBuilder is a little weird https://cs.android.com/android/platform/superproject/+/master:libcore/ojluni/src/main/
	<pre>public AbstractStringBuilder appendCodePoint(int codePoint) {    final int count = this.count;</pre>
	<pre>if (Character.isBmpCodePoint(codePoint)) {</pre>
	} else if (Character.isValidCodePoint(codePoint)) {
	··· } else {
	throw new IllegalArgumentException();
	return this;
	}
	does the same thing happen for a regular EditText on the same device and setup?
	si@google.com <si@google.com><u>#6</u></si@google.com>
	btw, I didnt know about scrcpy and it is awesome. it was exactly what I was looking for nowadays. thank you :)
	si@google.com <si@google.com>_#7</si@google.com>
	Reproduced with macos/ german input/scrcpy
	si@google.com <si@google.com><u>#8</u></si@google.com>
	Does not happen on EditText
	si@google.com <si@google.com>_#9</si@google.com>
	Repro
	install scrcpy, and start
	<ul> <li>get an older samsung device (the one I tested is samsung s8)</li> <li>change the laptop/desktop input language to german</li> <li>click on german umlaut</li> </ul>
	what is happening:
	external keyboard sends a KeyEvent that has combining accent mask
	<ul> <li>the codepoint sent is masked and is not a valid unicode codepoint</li> <li>KeyEvent.android.kt calls nativeKeyEvent.unicodeChar which is not a valid codepoint</li> </ul>
	StringuBilder.append fails since the codepoint is not valid
	if I change the KeyEvent code into following
	wan i = nativeKayEvant unicadaChar

based on the description in  $\bigoplus$  here and the code in  $\bigoplus$  here the exception is prevented however the glyph now displays as two separate characters (since more work and access to the next K Will implement while working on hardware keyboard improvements in its  $\bigoplus$  scope

return i

no...@google.com <no...@google.com> Reassigned to gr...@google.com.

gr...@google.com <gr...@google.com><u>#10</u>

reproduced per steps above. Stack trace line numbers have moved around a little. New stack trace:

```
java.lang.IllegalArgumentException
    at java.lang.AbstractStringBuilder.appendCodePoint(AbstractStringBuilder.java:800)
    at java.lang.StringBuilder.appendCodePoint(StringBuilder.java:236)
    at androidx.compose.foundation.text.StringHelpers_jvmKt.appendCodePointX(StringHelpers.jvm.kt:20)
    at androidx.compose.foundation.text.TextFieldKeyInput.typedCommand-ZmokQxo(TextFieldKeyInput.kt:78)
    at androidx.compose.foundation.text.TextFieldKeyInput.process-ZmokQxo(TextFieldKeyInput.kt:86)
    at\ and roidx.\ compose.\ foundation.\ text.\ TextField KeyInputKt\$textField KeyInput\$2\$1.\ invoke-ZmokQxo(TextField KeyInput.\ kt:255)
    at\ and roidx. compose. foundation.\ text. TextFieldKeyInputKt\$textFieldKeyInput\$2\$1.\ invoke\ (TextFieldKeyInput.\ kt: 255)
    at\ and roidx.\ compose.\ ui.\ input.\ key.\ KeyInputModifier.\ propagateKeyEvent-ZmokQxo(KeyInputModifier.\ kt:124)
    at androidx.compose.ui.input.key.KeyInputModifier.processKeyInput-ZmokQxo(KeyInputModifier.kt:103)
    at androidx.compose.ui.platform.AndroidComposeView.sendKeyEvent-ZmokQxo(AndroidComposeView.android.kt:651)
    at androidx.compose.ui.platform.AndroidComposeView.dispatchKeyEvent(AndroidComposeView.android.kt:659)
    at android.view.ViewGroup.dispatchKeyEvent(ViewGroup.java:1991)
    at android.view.ViewGroup.dispatchKeyEvent(ViewGroup.java:1991)
    at android.view.ViewGroup.dispatchKeyEvent(ViewGroup.java:1991)
    at android. view. ViewGroup. dispatchKevEvent (ViewGroup. java:1991)
    at \ com.\ and roid.\ internal.\ policy.\ DecorView.\ superDispatch Key Event\ (DecorView.\ java:1069)
    at com. android.internal.policy.PhoneWindow.superDispatchKeyEvent(PhoneWindow.java:1952)
    at android. app. Activity. dispatchKeyEvent (Activity. java: 4251)
    at androidx.core.app.ComponentActivity.superDispatchKeyEvent(ComponentActivity.java:126)
    at androidx.core.view.KeyEventDispatcher.dispatchKeyEvent(KeyEventDispatcher.java:86)
    at androids.core.app.ComponentActivity.dispatchKeyEvent(ComponentActivity.java:144)
    . . .
```

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

See aosp/2323739 for fix.

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

Marked as fixed.

Project: platform/frameworks/support

Branch: androidx-main

commit c9856f9bdd1bd8fb3e309632c46ff4dbea839d08

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Date: Thu Dec 01 11:35:12 2022

Fix crash on dead key input to TextFields

Dead keys wouldn't be parsed correctly, which resulted in a crash when converted into a string.

This change enables dead keys to be stored so that the next key press will correctly be combined with it.

Fix: 207626317

Test: Manual tests

Test: ./gradlew :compose:foundation:connectedAndroidTest -Pandroid.testInstrumentationRunnerArguments.class=androidx.compose.foundation.text.DeadKeyCombinerTest Change-Id: lbccabb7bcbf4be2fb3f4fba63f739131f5129c66

- compose/foundation/foundation/src/androidAndroidTest/kotlin/androidx/compose/foundation/text/DeadKeyCombinerTest.ktΑ
- compose/foundation/foundation/src/android Main/kotlin/androidx/compose/foundation/text/Dead Key Combiner. and roid. kt for the compose of t
- compose/foundation/foundation/src/commonMain/kotlin/androidx/compose/foundation/text/DeadKeyCombiner.kt
- М compose/foundation/foundation/src/common Main/kotlin/and roidx/compose/foundation/text/TextField KeyInput.kt with the compose of the compos
- compose/foundation/foundation/src/desktopMain/kotlin/androidx/compose/foundation/text/DeadKeyCombiner.desktop.kt
- compose/ui/ui/src/androidMain/kotlin/androidx/compose/ui/input/key/KeyEvent.android.kt

https://android-review.googlesource.com/2323739