Copy Summary | ▼ | View ▼ | Bug 1787405 Opened 9 months ago Closed 9 months ago immediate expression requires a # prefix - Categories Product: Core ▼ Type: defect Component: Audio/Video Priority: Not set Severity: --Version: Firefox 104 Platform: ARM Linux Tracking Status: RESOLVED WORKSFORME • People (Reporter: ray-v, Unassigned) - Details Bottom↓ Tags ▼ Timeline ▼ Ray Vine Reporter
Description • 9 months ago Cross compiling FF104.0 for armv7 fails: media/libyuv/libyuv ...
(standard input): Assembler messages:
(standard input): 19830: Error: immediate expression requires a # prefix -- 'pld [r2,1792]'
(standard input):19885: Error: immediate expression requires a # prefix -- 'pld [r4,1792]'
(standard input):20044: Error: immediate expression requires a # prefix -- 'pld [r4,1792]'
(standard input):20122: Error: immediate expression requires a # prefix -- 'pld [r4,1792]'
(standard input):25927: Error: immediate expression requires a # prefix -- 'pld [r0,1792]'
(standard input):25966: Error: immediate expression requires a # prefix -- 'pld [r0,1792]'
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(x86_64, aarch64 and i686 builds are all ok.

I'm using a gec cross compiler and this seems a similar issue to bug 1756347 part 2 - Use # prefix for arm32 immediates. Ray Vine Reporter
Comment 1 • 9 months ago After some searching in the mozilla repository log, I managed to find out where this change occurred, and work out, guided by the fix 'Use # prefix for arm32 immediates', what the Error: messages refer to. This patch fixes the build for me. - media/libyuv/libyuv/source/row_neon.cc --- media/libyuv/libyuv/source/row_neon.cc
+++ media/libyuv/libyuv/source/row_neon.cc
88 -591 +591 88
- "pld [80, 1792]
+ "pld [80, #1792]
88 -612 +612 88 [%0, 1792] [%0, #1792] "pld "pld Status: UNCONFIRMED \rightarrow RESOLVED Closed: 9 months ago Resolution: --- → WORKSFORME tt_1 Comment 2 • 8 months ago hi, did you take any actions to fix this with upstream libyuy? Ray Vine Reporter Comment 3 • 8 months ago No. I just saw it as an obstacle to the build completing, and assumed that it was a mozilla issue without looking further. $I\ can\ raise\ it\ upstream\ unless\ you're\ involved\ with\ libyuv\ and\ what\ to\ do\ that\ yourself\ -\ do\ you\ think\ it's\ the\ correct\ solution?$ Ray Vine Reporter Comment 4 • 8 months ago (In reply to Ray Vine from comment #3) No. I just saw it as an obstacle to the build completing, and assumed that it was a mozilla issue without looking further. I can raise it upstream unless you're involved with libyuv and want to do that yourself - do you think it's the correct solution? tt_1
Comment 5 • 8 months ago (In reply to Ray Vine from com No. I just saw it as an obstacle to the build completing, and assumed that it was a mozilla issue without looking further I can raise it upstream unless you're involved with libyuv and what to do that yourself - do you think it's the correct solution? Yes please, absolutly raise this issue at upstream. I'm not involved into libyuv developement, and barely know a thing about assembler. I believe there are basically two issues: the firefox build system enables neon on armv7 without being told to do so via --enable-fpu=neon config switch. See mozbg #1791267, or have a look at media/libyuv/ and the other issue may be an actuall bug in the neon assembler code, which you seemingly have fixed here Ray Vine Reporter Comment 6 • 8 months ago This issue has been fixed upstream in r1843: ce.com/libvuv/libvuv/+/e4b1ddd8fef58e465563ecfe75a2974f4fd40f2a^1/ Comment 7 • 8 months ago Well that is some very good news indeed! Were you already able to confirm the compile? I can queue it if you haven't yet and report back Do you want to reopen and repurpose the bug to pull in the fixed revision of libyuv into the firefox tree? Ray Vine Reporter
Comment 8 • 8 months ago Were you already able to confirm the compile? I've already done that. My build of 104.0 included the patch at eemment## for the two problematic lines of the code which were in row_neon.ce at the time. I don't think the additional 4 instances which are now in the file will make a difference as far as this issue is concerned. Do you want to reopen and repurpose the bug to pull in the fixed revision of libyuv into the firefox tree? I'm not familiar with that process, but I don't think so. Given the history of updating libyuv, re: bug 1698699, there could well be other issues arising from that which I think this bug report has run its course. If mozilla don't pick this up and patch for the 106 release there is the reassurance from upstream that this patch is the correct fix, and it's easy enough to include in future armv7 builds.

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