

Ceph - Bug #20109

src/common/crc32c_ppc_asm.s ppc64le build break

05/30/2017 07:44 PM - Andrew Solomon

Status: Resolved	% Done: 0%
Priority: Normal	Spent time: 0.00 hour
Assignee: Andrew Solomon	
Category: build	
Target version: v12.1.0	
Source: Community (dev)	Reviewed:
Tags:	Affected Versions:
Backport:	ceph-qa-suite:
Regression: Yes	Pull request ID:
Severity: 2 - major	Crash signature:
Description	
<p>It looks like there is a build break on ppc64le architecture associated with a recent change. The error message looks like this ...</p> <pre>[51%] ?[32mBuilding ASM object src/CMakeFiles/common-objs.dir/common/crc32c_ppc_asm.s.o?[0m /home/ubuntu/ceph/kestrels.1/ceph/src/common/crc32c_ppc_asm.s: Assembler messages: /home/ubuntu/ceph/kestrels.1/ceph/src/common/crc32c_ppc_asm.s:84: Error: unrecognized opcode: `func_start(__crc32_vpmsum)' /home/ubuntu/ceph/kestrels.1/ceph/src/common/crc32c_ppc_asm.s:127: Error: unrecognized opcode: `mtvrd(v8,' /home/ubuntu/ceph/kestrels.1/ceph/src/common/crc32c_ppc_asm.s:200: Error: unrecognized opcode: `vperm(v16,v16,v16,byteswap)'</pre> <p>/home/ubuntu/ceph/kestrels.1/ceph/src/common/crc32c_ppc_asm.s:201: Error: unrecognized opcode: `vperm(v17,v17,v17,byteswap)'</p> <p>This occurs because someone renamed the file src/common/crc32c_ppc_asm.S to .s and now gcc doesn't accept that as an assembly file.</p> <pre>git log --follow -p crc32c_ppc_asm.s pg commit e1c3985148869c55b3725e208ec3bc5acf5fcea Author: Bassam Tabbara <bassam.tabbara@quantum.com> Date: Wed May 17 17:41:16 2017 -0700</pre> <pre>cmake: workaound ccache issue with .S assembly files</pre> <p>when building with <code>-DWITH_CCACHE=ON</code> recent versions of ccache (for example 3.3.3) seem to mangle object files from the cache for source files that have a .S extension. This seems similar but unrelated to PR #14633. The workaround here is to rename .S files to .s (lower case).</p> <p>Signed-off-by: Bassam Tabbara <bassam.tabbara@quantum.com></p> <p>Here is the url for the merge of the above commit: https://github.com/ceph/ceph/commit/e1c3985148869c55b3725e208ec3bc5acf5fcea</p> <p>Here is the url for the pull request of the above commit: https://github.com/ceph/ceph/pull/15142</p>	
Related issues:	
Duplicates Ceph - Bug #20106: Rename of assembler source code file from .S to...	Duplicate 05/30/2017

History

#1 - 05/30/2017 07:48 PM - Andrew Solomon

I believe the original issue was specific to intel / yasm and had nothing to do with ppc64le. The ppc64le assembly file was simply changed to maintain symmetry (ie a cosmetic reason, not a functional one).

I'm currently testing the fix, which would be to rename src/common/crc32c_ppc_asm.s to .S (and change the corresponding name in src/CMakeLists.txt).

#2 - 05/30/2017 08:04 PM - Nathan Cutler

- *Duplicates Bug #20106: Rename of assembler source code file from .S to .s breaks ppc64le build added*

#3 - 05/30/2017 08:06 PM - Nathan Cutler

Hi. I'm working on this issue, too - see [#20106](#)

So far I have determined that merely renaming crc32_ppc_asm.s to crc32_ppc_asm.sx does not fix the issue. The build still fails, though in a different way.

Completely reverting PR#15142 does fix the issue. I'm still not sure why, though.

#4 - 05/31/2017 05:47 AM - Kefu Chai

- *Status changed from New to Resolved*

#5 - 05/31/2017 10:00 PM - Nathan Cutler

master PR: <https://github.com/ceph/ceph/pull/15373>