NASM Developer

00000

Hero Member

NASM - The Netwide Assembler



Welcome, Guest . Please lo	
Did you miss your activation	News
Login with username, pass	Forever V Login
	Calendar Login Register
	bler » NASM Forum » Programming with NASM » not support 32-bit absolute addresses
	« previous next
Pages: [1]	PRINT
Author	Topic: Mach-O 64-bit format does not support 32-bit absolute
□ rouki	Mach-O 64-bit format does not
Jr. Member	support 32-bit absolute
	addresses « on: July 12, 2014, 04:20:44 PM »
Posts: 5	
	Hey guys <a>e The aforementioned error (At the title) occurs in the following code (Compiling in OS X - mach-o 64)
	arr: dd 0x0FFFFFFF, 0x03020100, 0x07060504, 0x0B0A0908
	movdqa xmm5, oword[arr]
	What's the reason?
	Any suggestions?
	thanks in advance
	Logged
☐ gammac	Re: Mach-O 64-bit format does
Jr. Member	not support 32-bit absolute addresses
Posts: 71 Country: 00	« Reply #1 on: July 12, 2014, 05:10:42 PM »
	I don't know, but I know that movdqa needs an aligned address. Therefore, I think arr must be aligned at 16.
	Logged
	Please comment your code! It helps to help you.
☐ Frank Kotler	Re: Mach-O 64-bit format does not support 32-bit absolute

第1页 共3页 2021/8/6, 11:20 下午

« Reply #2 on: July 12, 2014, 05:40:21 PM »

addresses

Posts: 2490 Country:

I can confirm that this happens. Assembling as "-f elf64" or "-f win64" works fine. Using "default rel" or "movdqa xmm5, oword [rel arr]" works fine. I don't know why "-f macho64" thinks this is a 32-bit address. I suspect a bug, but I don't really know what "-f macho64" is "supposed" to do. Can you live with "rel"?

I would "expect" that a misaligned address would assemble without error, but would crash when you run it.

Thanks for the feedback!

Best, Frank

計 Logged

□ Cyrill Gorcunov

NASM Developer Full Member



Posts: 176 Country: 00



Re: Mach-O 64-bit format does not support 32-bit absolute

addresses

« Reply #3 on: July 13, 2014, 09:50:48 AM »

Indeed looks like a MachO64 bug, but can't say for sure since I'm not really familiar with this output format. Once time permit I'll take a look but better guys file a bug please.



■ Keith Kanios

Full Member



Posts: 383
Country:





Re: Mach-O 64-bit format does not support 32-bit absolute

addresses

« Reply #4 on: September 20, 2014, 04:46:35

PM »

For any issues of "Mach-O 64-bit format does not support 32-bit absolute addresses", use **DEFAULT REL** at the top of your source code.

Also, that message may cause general troubleshooting confusion as 64-bit Mach-O really lacks support for absolute 32-bit symbols, as you can easily use 32-bit immediate numbers (e.g. 0x000B8000) without issue per the x86-64 instruction set.

Offhand, I think defaulting to REL whenever macho64 is used would probably be the real fix in this case.



Pages: [**1**]

PRINT

« previous next »

NASM - The Netwide Assembler » NASM Forum » Programming with NASM » Mach-O 64-bit format does not support 32-bit absolute addresses

Jump to: => Programming with NASM v go

SMF 2.0.17 | SMF @ 2019, Simple Machines XHTML RSS WAP2

第3页 共3页 2021/8/6, 11:20 下午