





Forums

Downloads

Experiences ▼

Online Leagues ▼

Search...

Q

0

Home Page

Member map

Online Users

Staff

★ Home > Forums > Hacking/Emulation > Hacking Documentation > No sprite flicker rom and 15 sprite per scanline rom for AVS



Follow



# No sprite flicker rom and 15 sprite per scanline rom for AVS

Start new topic

Reply to this topic

2 N

NEXT

Page 1 of 2 ▼

# bruddog

Down with button mashing

••••••

Posted June 1, 2016

no sprite flickering.

By bruddog, June 1, 2016 in Hacking Documentation

Report post

These are only meant to be used in hardware or emulators that can take advantage of the

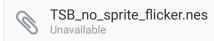


Moderators

**3,074**11,466 posts **Location:** Ca

This rom completely removes sprite flickering with the following patch

SET(0x2d04C, 0xA901209ACC4C3C90)

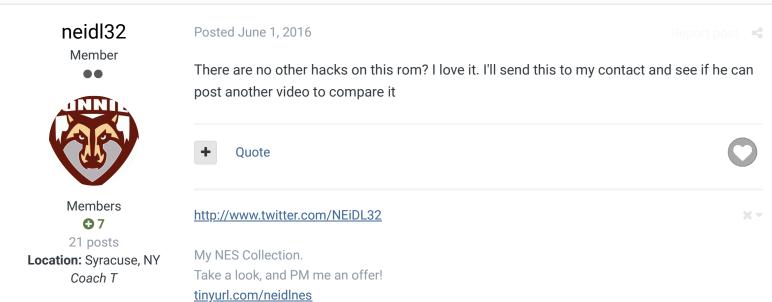


You would need to use this in nestopia with the Machine->Options No Sprite Limit checked

This next file would take advantage of the upcoming AVS's 15 sprites per scanline feature

This patch changes the check from 8 sprites per scanline to 15. You could also use this in nestopia as with the above using the no sprite limit option to see how much of an improvement it makes (A LOT).







Posted June 1, 2016

Report post

rom producer

Great work, bruddog. That looks awesome.



Members
211
634 posts

Location: Reno, NV





## neidl32

Member





Members 7 21 posts

Location: Syracuse, NY

Coach T

Posted June 1, 2016

Mog had loaded these on to a power Pak and said the results were very interesting. He



Quote



http://www.twitter.com/NEiDL32

should have a video available soon

××

My NES Collection.

Take a look, and PM me an offer!

tinyurl.com/neidlnes

# Mog Getting Started



Members

3
1 post

Posted June 1, 2016



Hello, I am the one who is posting the AVS recordings on youtube.

Here is a video showing both of those ROMs with 'extra sprites' off and on. The 'sprite limit 15' ROM looks pretty awesome. Nice job!

retroUSB AVS - NES Tecmo Super Bowl - Sprite hack ROMs d...





#### Quote



# bruddog

Down with button mashing





Moderators

**◆** 3,074 11,466 posts **Location:** Ca Posted June 1, 2016

Report post

Thanks for the demo! Can you hook me up with a free AVS? Just kidding.

That looks about like what I expected. Only the 15 sprite limit rom is OK to use in the AVS even with the extra sprite setting turned on.

I checked the sprite counters in FCEUX and you still get more than 15 sprites per scanline in certain situations like kickoffs, punt returns and tackles where there are a bunch of players all on/near one horizontal line. You'd need something like 22 or so sprites per scanline to be safe

The 15 sprite limit on the AVS improves the flickering by a lot.



Quote



### Knobbe

Tecmo Godfather



Founder



**3,242** 17,589 posts

**Tecmo Titles:** 1 Founder of T-Borg

Posted June 2, 2016

#### Report po



#### On 6/1/2016 at 11:36 AM, bruddog said:

These are only meant to be used in hardware or emulators that can take advantage of the no sprite flickering.

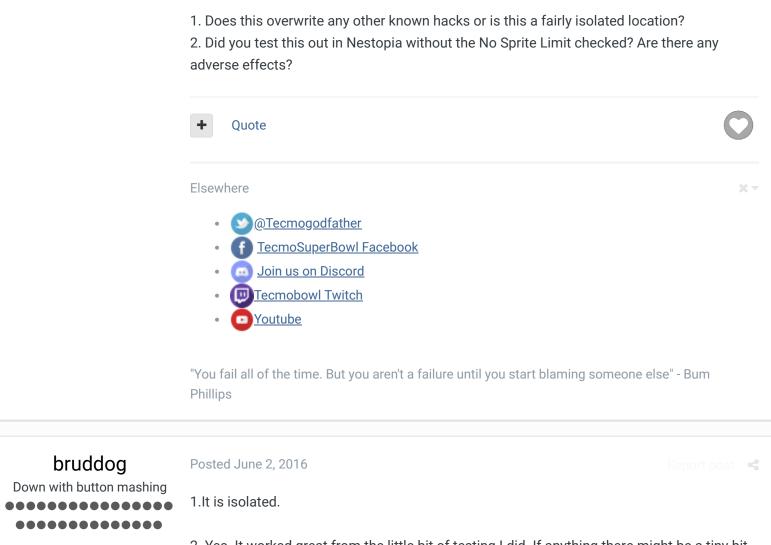
This rom completely removes sprite flickering with the following patch

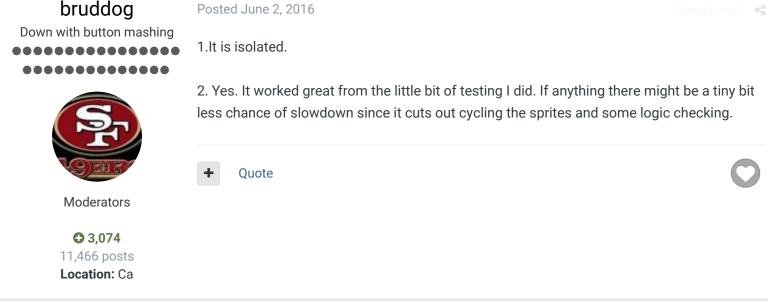
SET(0x2d04C, 0xA901209ACC4C3C90)



TSB\_no\_sprite\_flicker.nes Fetching info...

You would need to use this in nestopia with the Machine->Options No Sprite Limit checked







634 posts

## MartinFN

Promising Rookie



Members **⊕ 20** 84 posts

Posted June 4, 2016

WOW! Awesome hack! I tested it with VirtuaNes, no problems either. Really retarded question. If this hack were applied to a rom that got burnt to chip, what would happen to the game when someone plays it on native (NES) hardware? Would it bomb, or just not have an effect?



Quote



# bruddog

Down with button mashing



Posted June 4, 2016

The players would dissapear completely if there were more than 8 sprites on a line so you wouldn't want to use this on an old cart + nes



Moderators

**3,074** 11,466 posts **Location:** Ca

+

Quote



# buck

DARRELL GREEN



Members **⊉ 2,060** 

6,332 posts **Location:** Tecmo Super

Street

Tecmo Titles: Lincoln V

(2015)

Posted June 5, 2016



WOW! Awesome hack! I tested it with VirtuaNes, no problems either. Really retarded question. If this hack were applied to a rom that got burnt to chip, what would happen to the game when someone plays it on native (NES) hardware? Would it bomb, or just not have an effect?

magtv.jpg

+

Quote



"The right to speak and the right to refrain from speaking are complementary components of ... 'individual freedom of mind."

link to change one's signature



**Promising Rookie** 





Members
20
84 posts

Posted June 6, 2016

.?.?..



Quote



# gojiphen malor

**Tecmo Super Champion** 





Members 669

838 posts

Location: Monster Island

Posted September 8, 2017 (edited)



Overclocked emulator. Fixed.

Here's how:

#### (from reddit)

SpriteLimitOverclock.jpg

Edited September 8, 2017 by gojiphen malor



Quote



## Knobbe

Tecmo Godfather



Founder



**3**,242

Posted September 14, 2017

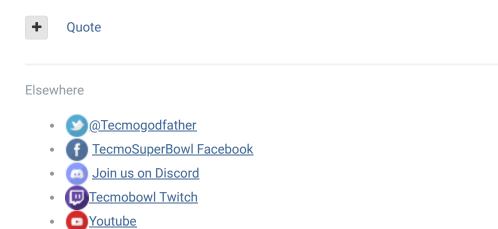
## On 6/4/2016 at 4:10 PM, MartinFN said:

WOW! Awesome hack! I tested it with VirtuaNes, no problems either. Really retarded question. If this hack were applied to a rom that got burnt to chip, what would happen to the game when someone plays it on native (NES) hardware? Would it bomb, or just not have an effect?

#### On 6/1/2016 at 11:36 AM, bruddog said:

These are only meant to be used in hardware or emulators that can take advantage of the no sprite flickering.





"You fail all of the time. But you aren't a failure until you start blaming someone else" - Bum Phillips



Down with button mashing

••••••



Moderators

**◆ 3,074** 11,466 posts **Location:** Ca

Posted September 14, 2017

On 9/8/2017 at 10:57 PM, gojiphen malor said:

I was getting a bit of slowdown after adding both the push/pull hack and the sprite flicker hack.

Overclocked emulator, Fixed.

Here's how:

(from reddit)

SpriteLimitOverclock.jpg

Hmm I don't think I noticed that but I didn't check closely on FCEUX. Does it do it both in old and new PPU mode? Old ppu mode usually runs faster because its slightle less accurate. The sprite flicker hack should help reduce game slowdown as the amount of time the CPU is spending on the game logic in any given frame has been reduced since it no longer has to check for which sprites to "flash" on and off.



Quote



# gojiphen malor

**Tecmo Super Champion** 



Posted September 14, 2017

After adding the Push/Pull hack on top of the 'no sprite flicker,' I noticed slowdown on Punts, Field Goals, Extra Point tries.. any time there was alot of 'moving bodies' at the same time.

This is what's available in FCEUX:





Members **O** 669 838 posts

Location: Monster Island

## 

After the overclock, the game runs like a champ. However I trust your insight, Bruddog Iol. I'm still very new when looking at the HEX code, and thank you because any insight you guys give is very helpful!



Quote



# bruddog

Down with button mashing





Moderators

**3**.074 11,466 posts Location: Ca

Posted September 14, 2017

The sprite flicker hack has nothing to do with the slowdown. It's likely the moving grapple hack adding slowdown. I bet the slowdown would be even worse without the no spriteflicker hack.

There is slowdown in the original game on the NES on punts when there are a lot of moving bodies at once.

Quote



# gojiphen malor

**Tecmo Super Champion** 



Members **O** 669

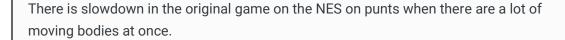
838 posts

Location: Monster Island

Posted September 14, 2017



On 9/14/2017 at 11:02 AM, bruddog said:



Thank you! It's been so long since I've used original NES hardware, I guess I didn't remember lol.



Quote



Atrain400

**Promising Rookie** 



Posted January 20, 2018 (edited)

When using Nestopia with this fix and you put on "No Sprite Limit", it makes the scoring cutscenes very choppy. The trade off is great during gameplay, I was just curious if there



Members

13
73 posts

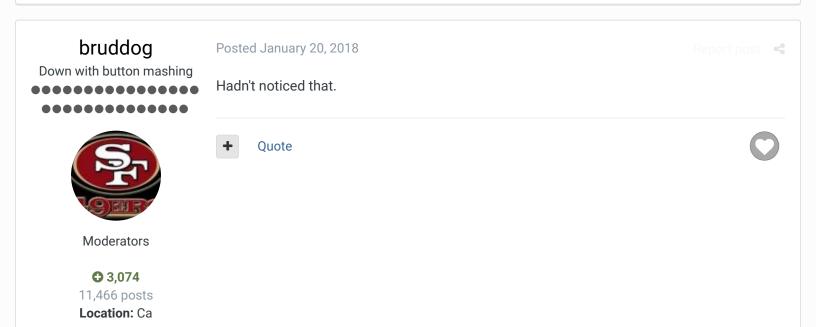
Location: Philadelphia, PA

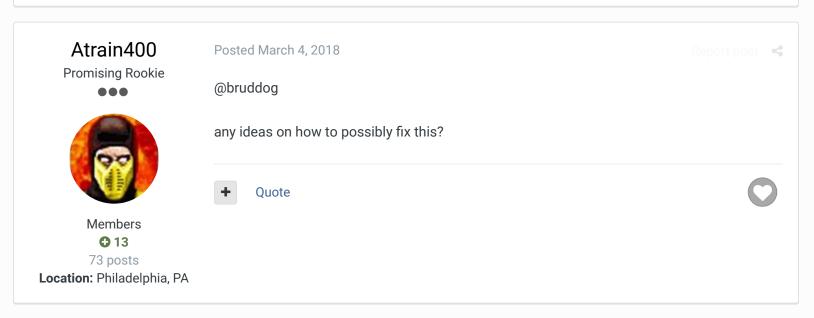
was a way to fix this or if anyone noticed this and has commented. Edited January 20, 2018 by Atrain400

+

Quote









Posted March 4, 2018

Report post

Not quickly or easily. The game uses the sprite overflow to hide the big player sprites to keep the player rising up out of the ground transition looking smooth. You'd probably have to redesign the cutscenes



Moderators

**3,074**11,466 posts **Location:** Ca

#### Quote



# kamphuna8

Tecmo Fanatic





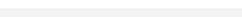
PureTecmo Administrators



**3,917** 14,517 posts

Location: Tacoma
Tecmo Titles: Overrated
Overstated

Posted March 15, 2018



On 6/1/2016 at 11:36 AM, bruddog said:

These are only meant to be used in hardware or emulators that can take advantage of the no sprite flickering.

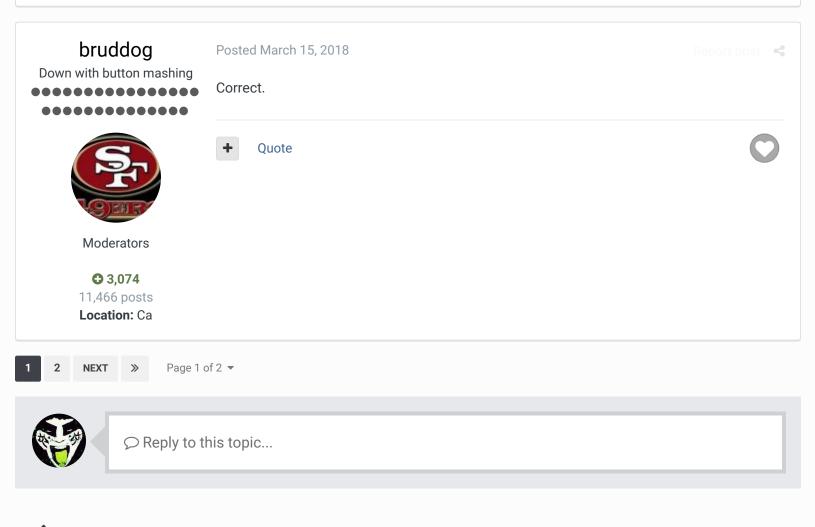
Sorry if this is a dumb question. Using our Everdrives on NES console, basically is hardware that can NOT take advantage of this, correct?

+ Quote



tecmo gods, über alles

**PLAY HARD** 





RECENTLY BROWSING 1 MEMBER

SBlueman

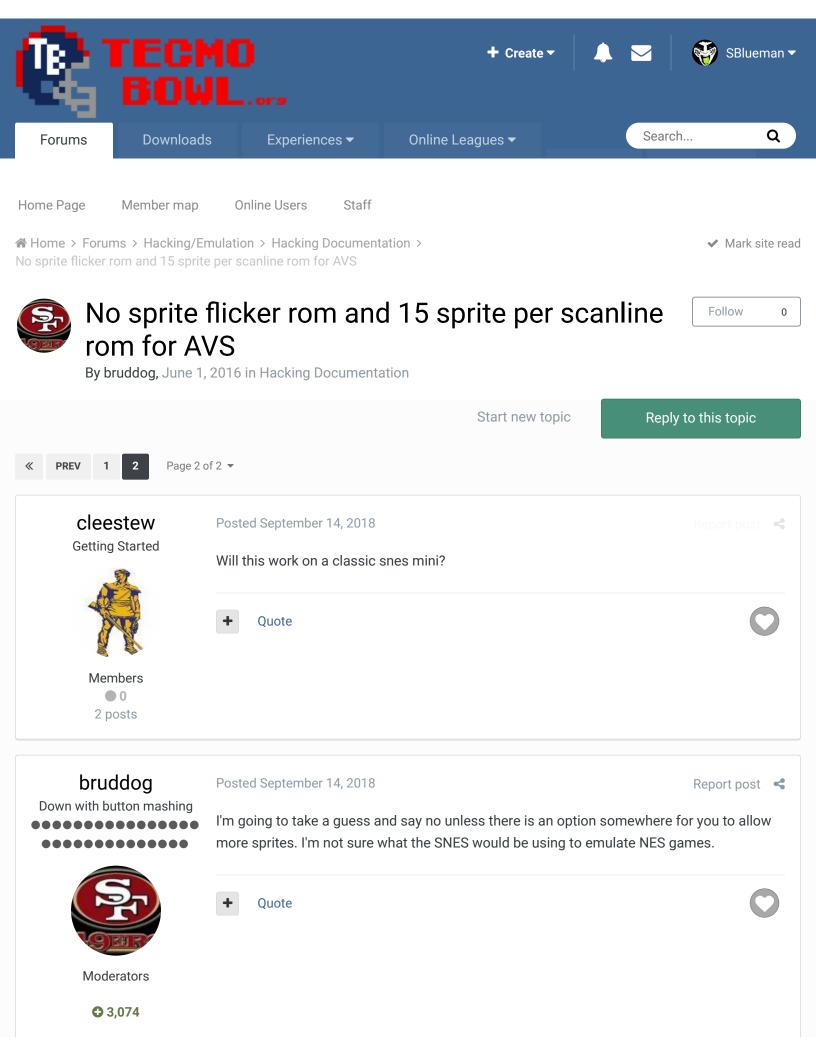
★ Home > Forums > Hacking/Emulation > Hacking Documentation > No sprite flicker rom and 15 sprite per scanline rom for AVS

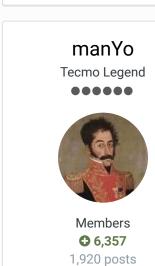




Theme ▼ Contact Us

TecmoBowl.org
Powered by Invision Community





Posted September 14, 2018

wow, thanks bru... just saw this thread, and I have an AVS and am gonna try it out this wkd



Quote



• TWITTER: <a href="https://twitter.com/SHAmanYo1080">https://twitter.com/SHAmanYo1080</a>

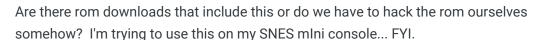




Members • 0

3 posts

Posted January 28, 2019





Quote



**PREV** 

Page 2 of 2 ▼



Reply to this topic...



GO TO TOPIC LISTING

RECENTLY BROWSING 1 MEMBER

**SBlueman** 

## Theme ▼ Contact Us

TecmoBowl.org
Powered by Invision Community