



NES PC and PA

By jstout, February 21, 2008 in [Hacking Documentation](#)

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jstout

Tecmo Super Champion



Members

+92

537 posts

Posted February 21, 2008

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Here is how to use the Pass Control and Pass Accuracy as used in the TSB III (SNES). The NES reads the PC when the ball is to be thrown (how accurate the ball is thrown) and then again elsewhere when the ball reaches a player (for a miss, drop, catch, deflection, or interception).

Pass Control = Ability to throw on target

Pass Accuracy = Ability to complete a pass

At x29E54:

```
20 F7 9F JSR $9FF7 ; Go to new PA read
```

At x2A007:

```
A0 88 LDY #$88 ; Read PA
```

```
4C DD 9F JMP $9FDD ; Go to Normal Code
```

Now PA will actually mean something

[+](#) Quote



buck

DARRELL GREEN

Posted February 21, 2008

[Report post](#)

wow... 😏



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

how will this change CCs and JJs?

does PA effect INTs at all?

now it's time to do some serious ratings testing...any recommended settings/combinations?

crazy!



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](#)

jstout

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now it's time to do some serious ratings testing...any recommended settings/combinations?

After my changes PA will be the only number used to check for QB ability to complete a pass. So Interceptions/CCs will be based upon the QB's PA, Receivers' REC, and Defenders' INT.

The PC will be the number used for how accurate the throws are. So JJs will be determined mostly by timing and this number (as in overthrows).

To check combos I suppose you could use TSB 3 as a reference or just play around a while. The easiest changes to view would be someone like John Elway. His PC is 31 and PA 69 and originally had a hard time completing passes and was inaccurate (obviously accuracy of the pass is very subtle as even Grogan doesn't spray everything). Now he should have the same inaccuracy but complete a lot more covered passes.

Some additional info if anyone wants to goof around with values. Each Accuracy is 4 hex numbers each is pulled and compared to a different random number depending on the situation.

Pass Control Skills (6 is the top and 100 is the bottom)

SET(0x2be14,0xf7348080)

SET(0x2be18,0xee328080)

SET(0x2be1c,0xe5308078)

SET(0x2be20,0xdc2e8078)

SET(0x2be24,0xd32c7870)

SET(0x2be28,0xca2a7870)

SET(0x2be2c,0xc1287868)

SET(0x2be30,0xb8267868)

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SET(0x2be4c,0x79187048)
SET(0x2be50,0x70166848)

+ Quote



buck

DARRELL GREEN



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Tecmo Titles: Lincoln V (2015)

Posted February 22, 2008

Report post

So, using your new PA code, how would the ratings PC/PA need to be set up in order to make the QB throw exactly as he did before (only using PC - ie stock TSB)?

PA = PC?

I'm asking because I want to start with some setups (PS/PC) I'm used to - then tweak PA and see how things change.

+ 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](#)

jstout

Tecmo Super Champion



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Posted February 22, 2008

Report post

✓ buck said:

So, using your new PA code, how would the ratings PC/PA need to be set up in order to make the QB throw exactly as he did before (only using PC - ie stock TSB)?

PA = PC?

Yes, New_PA = Old_PC would be exactly like the original. So PC and PA would be the same skill.

I and others would probably like to hear the results.

+ Quote



MrNFL

Posted February 22, 2008

Report post

Video Maven



Members

+ 97

720 posts

One of my biggest gripes of the NES game was this issue. I'd love to see it correct. Good work.

+ Quote



Creator of the Tecmo Legends Simulation and Rom, play as your franchise's greatest team here!



MrNFL uploaded a file to SNES

April 26, 2016



Tecmo Football Legends 2016

i Version 1.0.1 ↓ 2,791 downloads

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The Tecmo Football Legends rom for the SNES features the top team from 28 NFL franchises. The teams span seven decades and include 17 ...



1



0 comments

Also check out my "Best of the New Millennium" and "Best of the 90s" roms.

Bad Moon Rison

Site Admin



Administrators



+ 380

5,801 posts

Posted February 22, 2008

Report post

Wow, this is fantastic news. I am sure that high PA players will now be viewed with more value once you have finished. Some online current roster leagues might now factor this into how they create players.

+ Quote



Top Tournament Finishes:



2019- New Jersey: Elite 8; Poughkeepsie: 2nd Place

2018- New Jersey: 1st Place; Philadelphia: 3rd Place; Long Island: 1st Place

2017- New York: Elite 8

Location: Bronx, NY

2016- Long Island: 2nd Place; New York: 2nd Place
2015- New York: Elite 8
2014- New Jersey: 2nd Place; New York: Elite 8; Connecticut: 4th Place
2013- Buffalo: 4th Place; Connecticut: 5th Place
2012- New Jersey: 3rd Place; New York: 2nd Place; Connecticut: 3rd Place
2011- New York: 2nd Place
2009- Midwest: 5th Place
2007- New York: 1st Place

Online League Titles: STL 6, TCS 2, TCS 6, TCS 7, ATA 11, CIA 1, CIA 2, WTFS 1, TLL 1977

ATA Coach of the Year, Seasons 7 and 11
TPC First Ever Tournament Winner

buck

DARRELL GREEN



Members
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Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

Posted February 22, 2008

Report post

here are the 'SET' commands to implement this using TSBTool:

```
SET( 0x29e54, 0x20f79f )
SET( 0x2a007, 0xa0884cdd9f )
```

+ 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](#)

bruddog

Down with button mashing



Moderators

+ 3,074

11,466 posts

Location: Ca

Posted February 22, 2008

Report post

It's really a subtle difference as far as how many overthrows you see. I wouldn't even know quite how to value it. It would be a rating more valueable than avoid pass block but less valuable then the current PC, PS and QB MS

✓ Bad Moon Rison said:

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Bad Moon Rison said:

Wow, this is fantastic news. I am sure that high PA players will now be viewed with more value once you have finished. Some online current roster leagues might now factor this into how they create players.

Well, now that PA dictates "Covered Catches", how would it not be important? I'm going to experiment to make a good JJ & good CC QB.

+ Quote



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

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TomTupa

Tecmo Legend



Members

+ 12

2,004 posts

Location: Indiana

Posted February 22, 2008

Report post

Watch out for the Bears and Broncos now!

+ Quote



[sigs.php?player=dajabec](#)

[Tecmo Tunes](#) Tecmo-themed song parodies

bruddog

Down with button mashing



Posted February 22, 2008

Report post

Ya but PA is now just what PC was before more or less! The fact that PC now controls overthrow percentage

The way to make a good JJ and CC QB is the same as before.

Under the original scheme

Honestly the best JJ qb has low-medium PS with high PC



Moderators

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11,466 posts

Location: Ca

The best CC qb has high PS and high PC. (Increasing PS across the board is one way to cut down on jjs)

Under the new scheme

a low-medium PS with high PA is the best JJ QB

a high PS with high PA will be the best CC Qb

The PC will now just control how often the throw is errant..... as in catachable by no one.

It's hard to notice much difference unless you are playing with the extreme ends of the spectrum of thsi rating.

+ Quote



bruddog

Down with button mashing



Posted February 22, 2008

Report post

PA just replaces PC in value.

PC becomes slighty more valuable than APB.



Moderators

+ 3,074

11,466 posts

Location: Ca

+ Quote



SBlueman

Tecmo Legend



Members

+ 289

1,048 posts

Location: San Jose, CA

Posted February 22, 2008

Report post

▼ buck said:
how will this change CCs and JJs?

What are CCs and JJs? 😊

+ Quote Edit Options ▼





Check out my latest release: [Tecmo Super Bowl 2020 - SBlueman Edition](#)

Check out my other releases: [SBlueman's Downloads](#)

Have any SET commands to share? Post 'em up in this thread: [SET Command List \(Use with NES TSB & TSBTool\)](#).

TomTupa

Tecmo Legend



Members

+ 12

2,004 posts

Location: Indiana

Posted February 22, 2008

Report post

SBlueman said:

buck said:

how will this change CCs and JJs?

What are CCs and JJs? 😊

coverage catches and timed/lucky jumping catches

+ Quote



[sigs.php?player=dajabec](#)

[Tecmo Tunes](#) Tecmo-themed song parodies

buck

DARRELL GREEN



Members

+ 2,060

6,332 posts

Posted July 12, 2008

Report post

How does this (PA as INT&Completion control) change with season 'juice' values - With this code, Does the 'PC juice value' now boost the 'PA value' (instead of PC) when playing the CPU in later weeks?

+ Quote



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

Location: Tecmo Super Street
Tecmo Titles: Lincoln V (2015)

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Knobbe

Tecmo Godfather



Founder



+ 3,244

17,597 posts

Tecmo Titles: 1

Founder of T-Borg

Posted July 15, 2008

Report post

PC=100=no JJ?

It really makes you wonder if they simply forgot to implement this feature.

Good find!

+ Quote



Elsewhere

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- [Tecmobowl Twitch](#)
- [Youtube](#)

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

bruddog

Down with button mashing



Moderators

+ 3,074

11,466 posts

Location: Ca

Posted October 3, 2009

Report post

So I finally mostly figured out how the number work. Refer yourself to the byte strings listed below by jstout.

ex 06 pc @2be14 f7 34 80 80

The first byte is the chance the pass is on target. It gets compared to a random byte from 00-FF. If its less than the random byte its on target otherwise there is a chance for an underthrow/overthrow

This means

06PC= 4% chance of no underthrow/overthrow

100PC= 56% chance of being no underthrow/overthrow

Underthrow= ball goes out of bounds, stopped wr has to move to get the ball, Wr stops mid route.

Overthrow= ball potentially sails way over WR head, just enough that he can jump an catch it or dive and catch it

The second byte determines if the pass will be an underthrow or overthrow if its not ON target. If the byte is greater than the random number it will be under thrown

A 06PC will have a 20% chance of underthrowing it if the ball is off target...or a total chance of 19.6% of throwing an underthrow on any pass

A 100PC qb will have a 9% chance of underthrowing it if the ball is off target...or a total chance of 4% of throwing an underthrow on any pass.

A 06PC will have a 76.9% chance of throwing an overthrow on any pass

A 100PC qb will have a 40% chance of throwing an overthrow on any pass.

The 3rd byte has something to do with the underthrows. I'm not quite sure what it does.

Perhaps the smaller the number the more catchable the underthrows tend to be. There was too much code to sort through for me to try and figure it out.

The 4th byte has to do with overthrows. And this is kind of interesting. The bytes only range from 68-80. However if you set this byte to 0. The overthrows are never overthrows. They act like normal on target passes. So by lowering this byte you could drastically reduce the number of long jj bombs or at least moreso for shitty qbs. Or you could increase the chance for underthrows. Timed jj's would still work as normal.

It's funny because after looking at this the 50-56 pc qb is probably the best for jjs since they run little risk of getting jj inted except by carrier/haddix and they will get more lob balls than a higer pc qb.

✓ **jstout said:**

Some additional info if anyone wants to goof around with values. Each Accuracy is 4 hex numbers each is pulled and compared to a different random number depending on the situation.

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SET(0x2be48,0x821a7050)

SET(0x2be4c,0x79187048)

SET(0x2be50,0x70166848)

+ Quote

↑ 1

quince3800 reacted to this



buck

DARRELL GREEN



Posted October 3, 2009

Report post

Agreed. 44-50 has always seemed best.

re: 50 PC best for JJs - I've known this from playing the game.



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

+ Quote



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

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TomTupa

Tecmo Legend



Posted October 3, 2009

Report post

So passing speed has nothing to do with overthrows/underthrows?



Members

+ 12

2,004 posts

Location: Indiana

+ Quote



 [sigs.php?player=dajabec](https://www.sigsgames.com/signatures.php?player=dajabec)

Tecmo Tunes Tecmo-themed song parodies

buck

DARRELL GREEN



Posted October 5, 2009

Report post

bruddog, thanks for breaking down the PC controls - that is nice. I plan on tweaking PC for shit qbs so they can't throw bomb JJs 😊 .

question: can all the attributes be broken down like this? the physics of TSB can really be altered if you dig this deep.



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

+ 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](#)

bruddog

Down with button mashing

Posted October 5, 2009

Report post

Not really. Unless you hack the rom and make passing speed too fast.



Moderators

+ 3,074

11,466 posts

Location: Ca

TomTupa said:

So passing speed has nothing to do with overthrows/underthrows?

+ Quote



TomTupa

Tecmo Legend



Members

+ 12

2,004 posts

Location: Indiana

Posted October 6, 2009

Report post

bruddog said:

Not really. Unless you hack the rom and make passing speed too fast.

TomTupa said:

So passing speed has nothing to do with overthrows/underthrows?

Well, I guess Marino just had too high PC and Brister and Tolliver too low PC. Just made it seem like high PS qbs couldn't throw consistent jjs. I could swear the arc is lower and easier to block though....

+ Quote



sigs.php?player=dajabec

Tecmo Tunes Tecmo-themed song parodies

bruddog

Down with button mashing



Moderators

+ 3,074

11,466 posts

Location: Ca

Posted October 6, 2009

Report post

Are you talking about the short 10-15 yard timed ones or the 70yd variety?

+ Quote



bgboud2

Tecmo Legend



2.0

+ 577

3,579 posts

Location: Irving, TX

Posted October 6, 2009

Report post

Marino seems prone to throwing long on divers on ~20 yard routes on original

Quote



AIM = bgboud2



sigs.php?player=bgboud2

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SBlueman

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NES PC and PA

By jstout, February 21, 2008 in [Hacking Documentation](#)

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bruddog

Down with button mashing



Moderators

+ 3,074

11,466 posts

Location: Ca

Posted October 7, 2009

[Report post](#)

To clarify for overthrows/JJ's I'm talking more about the 50-70yd variety. Same for timed JJ's. These numbers don't seem to affect the short timing JJ's. PS seems to have more to do with those as people have mentioned.

[+ Quote](#)

buck

DARRELL GREEN



Members

+ 2,060

Posted July 1, 2010

[Report post](#)

did you ever come to any more detailed conclusions with this, bruddog? Like the 3rd byte? I'm trying to reduce the major overthrows on long throws...so many wide open WRs with the ball sailing 15 yards too long.

▼ **bruddog said:**

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+ Quote



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

[link to change one's signature](#)

bruddog

Down with button mashing



Moderators

+ 3,074

11,466 posts

Location: Ca

Posted July 2, 2010

Report post

Sorry buck. I did not. I tried experimenting with the bytes but I never felt I was reaching any definitive conclusion.

You can pretty much achieve what you want with the first two bytes.

+ Quote



buck

DARRELL GREEN



Members

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Report post

bruddog said:

Sorry buck. I did not. I tried experimenting with the bytes but I never felt I was reaching any definitive conclusion.

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yeah, the first two should do it. do you know where 0x to change the arc of a pass?

+ Quote



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

[link to change one's signature](#)

drunken_honkey

Town Drunk



Members

+ 390

1,019 posts

Location: Texas

Posted July 2, 2010

Report post

Hey buck, scroll down the active threads and check out my KO, Punts, Fumbles thread. I believe that you can find the pass height there. Sorry I'm on my phone, or I'd post a link to get there. The location starts with the KO height, and should have the Pass, Pitches, snaps, and FG in there too. I know where they are in TSB3, but I didn't check it for the NES, but I did post the location for the NES anyways.

[Post made on a Tecmo Super Mobile Device!]

+ Quote

Hook 'Em!! Whatcha know 'bout them Texas boys!!

Our Rom discussion thread:

<http://tecmobowl.org/topic/56988-2013-mt-remix-project-mayhem-trailer/>

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[Post made on a Tecmo Super Mobile Device!]

[Post made on a Tecmo Super Mobile Device!]

[viewtopic.php?f=22&t=13674&p=110166](http://tecmobowl.org/topic/56988-2013-mt-remix-project-mayhem-trailer/viewtopic.php?f=22&t=13674&p=110166)

+ Quote

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buck

DARRELL GREEN

Posted July 2, 2010

Report post

yeah, the way I see it - passing arc works like this, starting at x2CF09; PS (QB passing speed



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

rating) is grouped in two's. both numbers work together, I've experimented a little bit and have started to figure it out, but will get deeper into later today.

3rd column is the passing speed rating, 1st and 2nd columns are the trajectory bytes for each PS group.

80 01 6-13

64 01 19-25

48 01 31-38

2C 01 44-50

10 01 56-63

F4 00 69-75

D8 00 81-88

DC 00 94-100

thanks for the tip. 😊

drunken_honkey said:

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bruddog

Down with button mashing



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+ 3,074

11,466 posts

Location: Ca

Posted July 2, 2010

Report post

2CF09? for the nes?

I have the

actual speed starting at: 2BE54

the arc is at: 2BE64

buck said:

yeah, the way I see it - passing arc works like this, starting at x2CF09; PS (QB passing speed rating) is grouped in two's. both numbers work together, I've experimented a little bit and have started to figure it out, but will get deeper into later today.

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thanks for the tip. 😊

drunken_honkey said:

Hey buck, scroll down the active threads and check out my KO, Punts, Fumbles thread. I believe that you can find the pass height there. Sorry I'm on my phone, or I'd post a link to get there. The location starts with the KO height, and should have the Pass, Pitches, snaps, and FG in there too. I know where they are in TSB3, but I didn't check it for the NES, but I did post the location for the NES anyways. Or PM me and Ill shot you those locs when I get home.

viewtopic.php?f=22&t=13674&p=110166

+ Quote



drunken_honkey

Town Drunk



Members

+ 390

1,019 posts

Location: Texas

Posted July 2, 2010

Report post

Yeah, I just got home and looked at my notes for TSB3 and realized the info I posted only assigns what tile to use for passes. (Which if I can dig into it, might be able to create spirals on passes... 😊) It does give the KO, FG, and punts its height. But what you guys are talking about is just as interesting. I'll have to see if I can find this in my rom. Thanks!

[Post made on a Tecmo Super Mobile Device!]

+ Quote



Hook 'Em!! Whatcha know 'bout them Texas boys!!



Our Rom discussion thread:

<http://tecmobowl.org/topic/56988-2013-mt-remix-project-mayhem-trailer/>

buck

DARRELL GREEN



Posted July 2, 2010

Report post

so what the hell did I find? it definitely has something to do with PS and arc...try it out.

bruddog said:



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

2CF09? for the nes?

I have the

actual speed starting at: 2BE54

the arc is at: 2BE64

✓ buck said:

yeah, the way I see it - passing arc works like this, starting at x2CF09; PS (QB passing speed rating) is grouped in two's. both numbers work together, I've experimented a little bit and have started to figure it out, but will get deeper into later today.

3rd column is the passing speed rating, 1st and 2nd columns are the trajectory bytes for each PS group.

80 01 6-13

64 01 19-25

48 01 31-38

2C 01 44-50

10 01 56-63

F4 00 69-75

D8 00 81-88

DC 00 94-100

thanks for the tip. 😊



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](#)

bruddog

Down with button mashing



Moderators

+ 3,074

11,466 posts

Location: Ca

Posted July 2, 2010

Report post

@ 2cF09 the hex bytes start off 01 01 85 84 85 A3....

And they don't do shit for the passing arc. So either you posted the location wrong or your smoking crack. All that location did was change tiles near the endzone.



Quote



buck

DARRELL GREEN



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

Posted July 2, 2010

Report post

bruddog said:

@ 2cF09 the hex bytes start off 01 01 85 84 85 A3....

And they don't do shit for the passing arc. So either you posted the location wrong or your smoking crack. All that location did was change tiles near the endzone.

damn, bruddog, I didn't know you liked to get wet...

sorry: x2DF09 😊

now go check it out, these do shit for passing arc (maybe all arc stuff like snaps and kickoffs....like honkey said).

thanks for telling me the real locations, though.

+ 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](#)

drunken_honkey

Town Drunk



Members

+ 390

1,019 posts

Location: Texas

Posted July 2, 2010

Report post

Yeah, now I sat down for a second and looked again at that location. KOs starts with the 8001 byte to the A000 byte. The snap, fumbles, punts (FG I believe use the same bytes) passes and pitches are all in this location. There should be a part where the first 2 bytes control the graphic used, followed by the next 2 bytes that assign the height. In TSB3 30 and 70 are the graphics, and 38 and 78 are the shadows graphics. I only screwed with it a lil on TSB3, and haven't searched for pointers that grab the code. Its in that, that I fully think its possible to do cool things. I just found them the other night and like many things I find I will go back and see what kind if magic I can do with it. But if ya'll figure some things out I'm all ears.

[Post made on a Tecmo Super Mobile Device!] mobile.png

+ Quote



Hook 'Em!! Whatcha know 'bout them Texas boys!!

Our Rom discussion thread:

<http://tecmobowl.org/topic/56988-2013-mt-remix-project-mayhem-trailer/>

bruddog

Posted July 2, 2010

Report post

Down with button mashing



buck those locations aren't linked to individual passing speed attributes. In just two passes with marino the game read the majority of those bytes



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 July 2, 2010

Report post

I set up the code logger to look at rom locations accessed.

a state was set right before snap, turn on logger, snap ball, throw pass with 38,50,44 (PS,PC,PA) qb.

the locations in blue are accessed -which are not consistent with what I found earlier today (with regards to PS and the spot accessed)

EDIT - these do affect trajectory, but must have to do with graphics for a certain pass angle or something.

```

02DF00: 41 A5 AC 6A 85 40 4C BB 9E 80 01 64 01 48 01 2C
02DF10: 01 10 01 F4 00 D8 00 BC 00 72 01 54 01 36 01 18
02DF20: 01 FA 00 DC 00 BE 00 A0 00 A9 00 A3 00 A1 00 A3
02DF30: 40 A9 40 A3 C0 A1 80 A3 80 A3 AD 40 00 A1 A5 00
02DF40: 00 A3 AD 00 00 A9 A9 00 00 AD AD 00 00 A7 A7 00
02DF50: 00 AB AB 00 00 A3 A3 00 00 AB AD 00 00 A5 A1 00
02DF60: 00 AB AD 00 00 A1 A5 00 00 AD AD 00 00 A7 A7 00
02DF70: 00 AB AB 00 00 A3 A3 00 00 A9 A9 00 00 A3 AD 00
02DF80: 00 A1 A5 00 00 A3 AD 40 00 A3 A3 00 00 AB AB 00
02DF90: 00 A7 A7 00 00 AD AD 00 00 A1 A5 00 00 AB AD 00
02DFA0: 00 A5 A1 00 00 AB AD 00 00 A3 A3 00 00 AB AB 00
02DFB0: 00 A7 A7 00 00 AD AD 00 00 FF FF FF FF FF FF FF
02DFC0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

```

+ 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](#)

quince3800

Starter



Posted August 3, 2012

Report post

Greetings,

This is a novice question, but if PC and PA aren't where/as they're "supposed" to be, then why not just switch the hex references within the game? That would make managers 'easier'



Members
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151 posts

to utilize because you wouldn't have to revisit them or account for totally new information when rating players. Does anyone know how to do this?

+ Quote



bruddog

Down with button mashing



Posted August 3, 2012

Report post

Im not following your question...



Moderators

+ 3,074
11,466 posts
Location: Ca

+ Quote



Knobbe

Tecmo Godfather



Founder



+ 3,244
17,597 posts
Tecmo Titles: 1
Founder of T-Borg

Posted August 3, 2012

Report post

On 8/3/2012 at 12:46 PM, bruddog said:

Im not following your question...

Looking back through this thread, which is awesome, btw, the issue is that roms have been rated with PC in mind where with this hack PA would be more important.

It's really a lot more difficulty to switch the attributes of PC and PA than it would be to swap some ratings given how trivial it is to swap with a tool like TSB Supreme

+ Quote



Elsewhere



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

quince3800

Starter



Members

+ 15

151 posts

Posted August 6, 2012

Report post

On 8/3/2012 at 12:46 PM, bruddog said:

Im not following your question...

If in the original TSB rom PC controls the QB's accuracy and PA controls the completion/INT, etc. likelihood, couldn't the hex just be manipulated so that these attributes do that the say they do.

It seemed like JSTOUT's 2/2008 reply just tweaks the PA rating to make the QB's less INT prone (or am I misunderstanding?). I'm wondering if the attributes can't just be fixed to do what they say. Or is this really not worth the go-around?

+ Quote



bruddog

Down with button mashing



Moderators

+ 3,074

11,466 posts

Location: Ca

Posted August 6, 2012

Report post

Yes, one of jstouts hacks does exactly that.

+ Quote



bruddog

Down with button mashing



Moderators

Posted August 6, 2012

Report post

In fact this hack does exactly that. Hence why i was confused by your question.

+ Quote



+ 3,074

11,466 posts

Location: Ca

quince3800

Starter



Members

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151 posts

Posted August 6, 2012

Report post

On 2/21/2008 at 9:18 PM, jstout said:

Here is how to use the Pass Control and Pass Accuracy as used in the TSB III (SNES). The NES reads the PC when the ball is to be thrown (how accurate the ball is thrown) and then again elsewhere when the ball reaches a player (for a miss, drop, catch, deflection, or interception).

Pass Control = Ability to throw on target

Pass Accuracy = Ability to complete a pass

At x29E54:

20 F7 9F JSR \$9FF7 ; Go to new PA read

At x2A007:

A0 88 LDY #\$88 ; Read PA

4C DD 9F JMP \$9FDD ; Go to Normal Code

Now PA will actually mean something

Ok,

Very sorry. I'm still confused. Is the above what you're referring to? I was confused by the second of his responses. Does the quoted response establish PC as what it's "supposed" to be? What exactly is happening to PA here? (He says, "Now PA will actually mean something"). I'm stuck.

Thanks again.

+ Quote



bruddog

Down with button mashing



Moderators

Posted August 6, 2012

Report post

Yes that hack is doing exactly as you suggested.

PC determines if the pass is on target

PA is used in the calculation to determine if a pass is caught, intercepted, deflected.

+ Quote



+ 3,074

11,466 posts

Location: Ca

buck

DARRELL GREEN



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

Posted August 6, 2012

Report post

On 8/6/2012 at 11:34 AM, bruddog said:

Yes that hack is doing exactly as you suggested.

PC determines if the pass is on target

PA is used in the calculation to determine if a pass is caught, intercepted, deflected.

quince3800 -> in the original Tecmo Super Bowl (TSB) game for the Nintendo, "Pass Accuracy" (PA) did NOT DO ANYTHING. That attribute was NOT used by the game, ever. -> "Pass Control" (PC) attribute was used for BOTH QB "pass-control variable" and the "completion variable".

this here hack, like bruddog and everybody else says, modifies the TSB game-code in such a fashion that PA is now used for the "completion variable" and PC is simply the "Control" ability of the QB.

+ 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](#)

quince3800

Starter



Members

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151 posts

Posted August 9, 2012

Report post

@ Buck,

Thank you. I tested a rom using extremes and figured out what was happening. Appreciate the response.

+ Quote



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NES PC and PA

By jstout, February 21, 2008 in [Hacking Documentation](#)

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quince3800

Starter



Members

+ 15

151 posts

Posted March 23, 2013 (edited)

[Report post](#)

I'm trying to test the 3rd byte here right now by making 50 and 56 (hacked PC = accuracy) the same and changing the relevant byte. It looks like the smaller the byte the more "manageable" the ball.

When 78 is the value, there's more diving and leaping passes (the PA is 94 for both QBs here), whereas 00 (for an extreme) seems to produce a lot of short passes, where it's reasonably on target / "accurate," but the receiver often stops just briefly to be able to catch the ball. Even with a very wide range, however, the difference is barely noticeable though. I'll edit this when I see some more.

Edit 1: There also seem to be (only a bit) more errant (out of bounds) tosses for the higher value.

Edit 2: The byte seems to tighten the window within which the QB is accurate at the extreme I'm looking at now (00), but not generally allowing the WR to run through the ball (only rarely). The extreme does not eliminate errant throws, however.

Edit 3: I think the note about the frequency of errant passes should be my error, since the code breakdown suggests that it should have nothing to do with this byte. There may be only a minor difference, but I'm not sure.

Edit 4: The difference between a fictitious extreme (00) and 06 skill (78 in hex) is not great and editing these values may need to take that into account if you're going to edit the hex to control the accuracy of QBs.

Edit 5 (April 2): These are some notes I have for retesting. I'm posting them because of my own confusion and wondering if anyone either has A- tested anything or B- looked at the code:

- testing FF (inaccurate) FF (underthrow) FF 00 against FF FF 00 00: the 3rd byte has no apparent effect on underthrows
- testing FF (inaccurate) FF (underthrow) FF (wide window) FF (??) against FF FF 00 FF: 3rd byte appears to have no effect on underthrows.
- testing FF (inaccurate) 00 (overthrow) FF FF against FF 00 FF 00: no definitive conclusion; both QBs seemed to behave about the same; the FF 00 (overthrow) FF (wide window) 00 (no overthrow??) QB can still over throw balls by a wide margin; lots of short (i.e., not in stride), but reasonably accurate passes for both
- testing FF (inaccurate) 00 (overthrow) 00 (tight window) FF (??) against FF 00 00 00: long throws still overly long for FF 00 00 00 QB and lots of jump balls for both
- testing 00 (accurate) 00 (overthrow) 00 (tight window) FF (??) against 00 00 00 00: 3rd byte maybe overriding the 4th byte, as all throws seem to be exactly on target
- testing 00 (accurate) 00 (overthrow) FF (wide window) FF (??) against 00 00 FF 00: everything still on target
- testing FF (inaccurate) FF (underthrow) 00 (tight window) FF (??) against FF FF 00 00: 4th byte has no apparent effect on underthrows
- testing FF (inaccurate) FF (underthrow) FF (wide window) FF (??) against FF FF FF 00: 4th byte has no effect on underthrows

Additional editing (4/4/2013):

- testing FF (inaccurate) 00 (overthrow) 90 (wide window) 00 (??) against FF 00 00 FF: first QB's throws left the WR stretching to make catches (as expected); **Note: the computer only seems to respond to a certain range for the 3rd byte (FF entries had no appreciable effect);** couldn't discern anything concerning the 4th byte

- testing 00 (accurate) 00 (overthrow) 90 (wide window) FF (??) against 00 00 00 FF: both QBs extremely on target (in stride throws); even when the 2nd byte was changed to FF (for underthrows)
- testing FF (inaccurate) 00 (overthrow) 90 (wide window) FF (??) against FF 00 90 00: 4th byte has no apparent effect at all
- testing FF (inaccurate) 00 (overthrow) 90 (wide window) 80 (??) against FF 00 00 00: this was done with the aim of following the observation made (in blue) about the 3rd byte; however, no difference was apparent

At present I'm completely stuck with regards to the 4th byte. Any "observation" I make for one QB shows back up with the other QB's performance later one. (I've been dilligent about reseting the game so that both QB's are in AVERAGE condition throughout testing). I'm wondering if the 4th byte simply wasn't implemented.

@Bruddog: What I want to know is how you came to the conclusion that the 3rd byte was for underthrows and the 4th was for overthrows. That's completely not been my observation. Was this done using code entirely? I'm using FCEUX, but don't know how to interpret this area, so I didn't try to fetch anything.

@Buck: What's the rest of your spreadsheet doing? I can make the 'accurate/non' calculations independently, but I'm curious if there is anything additional that you'd found.

Edited April 4, 2013 by quince3800

+ Quote



philleyOphish

www.tecmosb.com



Members

+ 61

691 posts

Location: Woodridge, IL

Posted April 2, 2013 (edited)

Report post

On 2/21/2008 at 9:18 PM, jstout said:

Pass Control = Ability to throw on target

Pass Accuracy = Ability to complete a pass

At x29E54:20 F7 9F JSR \$9FF7 ; Go to new PA readAt x2A007:A0 88

Please excuse my complete Noob Hex editing skills. I don't know what I am doing. Can someone explain in english what exactly to do here to make this work?

Am I supposed to replace "x29E54" with "20F79F"?
And then replace "x2A007" with "a0884CDD9F"?

I can't locate either one of those locations? Any tips?
Edited April 2, 2013 by philleyOphish

+ Quote



====\ philleyOphish /====



buck

DARRELL GREEN



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

Posted April 2, 2013

Report post

at ROM location (address) 29E54, overwrite what is there (note that you are going to be replacing three bytes) with 20F79F...etc

+ Quote



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

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philleyOphish

www.tecmosb.com



Members

+ 61

691 posts

Location: Woodridge, IL

Posted April 2, 2013

Report post

Got it. Thank you buck and [quince3800](#) for your help!

+ Quote



====\ philleyOphish /====



buck

DARRELL GREEN

Posted April 3, 2013

Report post



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

On 3/23/2013 at 1:13 PM, quince3800 said:

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-
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-
-
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-
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-
- testing FF (inaccurate) FF (underthrow) 00 (tight window) FF (??) against FF FF 00 00: 4th byte has no apparent effect on underthrows
-
- testing FF (inaccurate) FF (underthrow) FF (wide window) FF (??) against FF FF FF 00: 4th byte has no effect on underthrows
-

yes, I have looked into this a lot, but it's been a while. keep up the good work.

would you be interested in this spreadsheet? it breaks down 4 four bytes of PC for each skill (6-100). it has SET commands, but I usually just copy and paste by hand.

4	# Pass Control Skills (5 is the top and 100 is the bottom)											
5	ORIGINAL DATA	PC	ON TARGET?	OVER or UNDER	UNDER CATCH	OVERTHROW?						
6	SET(0x2be14, 0xf7348080)	6	F7	34	80	80	SET(0x2BE14, 0xf7348080)	F7348080	247	52	128	128
7	SET(0x2be18, 0xae328080)	13	EE	32	80	80	SET(0x2BE18, 0xae328080)	EE328080	238	50	128	128
8	SET(0x2be1c, 0xe5368078)	19	E5	36	80	78	SET(0x2BE1C, 0xe5368078)	E5368078	229	48	126	120
9	SET(0x2be20, 0xdca28078)	25	DC	2E	80	78	SET(0x2BE20, 0xdca28078)	DC2E8078	220	46	128	120
10	SET(0x2be24, 0xd32c7870)	31	D3	2C	78	70	SET(0x2BE24, 0xd32c7870)	D32C7870	211	44	120	112
11	SET(0x2be28, 0xca2a7870)	38	CA	2A	78	70	SET(0x2BE28, 0xca2a7870)	CA2A7870	202	42	120	112
12	SET(0x2be2c, 0xc1287868)	44	C1	28	78	68	SET(0x2BE2C, 0xc1287868)	C1287868	193	40	120	104
13	SET(0x2be30, 0xb8267868)	50	B8	26	78	68	SET(0x2BE30, 0xb8267868)	B8267868	184	38	120	104
14	SET(0x2be34, 0xaf247060)	56	AF	24	70	60	SET(0x2BE34, 0xaf247060)	AF247060	175	36	112	96
15	SET(0x2be38, 0xae227060)	63	A6	22	70	60	SET(0x2BE38, 0xae227060)	A6227060	166	34	112	96
16	SET(0x2be3c, 0x9d207058)	69	9D	20	70	58	SET(0x2BE3C, 0x9d207058)	9D207058	157	32	112	88
17	SET(0x2be40, 0x841e7058)	75	84	1E	70	58	SET(0x2BE40, 0x841e7058)	841E7058	148	30	112	88
18	SET(0x2be44, 0x8b1c7050)	81	8B	1C	70	50	SET(0x2BE44, 0x8b1c7050)	8B1C7050	139	28	112	80
19	SET(0x2be48, 0x821a7050)	88	82	1A	70	50	SET(0x2BE48, 0x821a7050)	821A7050	130	26	112	80
20	SET(0x2be4c, 0x79187048)	94	79	18	70	48	SET(0x2BE4C, 0x79187048)	79187048	121	24	112	72
21	SET(0x2be50, 0x70166848)	100	70	16	68	48	SET(0x2BE50, 0x70166848)	70166848	112	22	104	72
22												
23	ex 05 pc @2be14 ff 34 80 80											
24												
25	The first byte is the chance the pass is on target. It gets compared to a random byte from 00-FF. If its less than the random byte its on target otherwise there is a chance for an underthrow/overthrow											
26												
27	This means											
28												
29	05PC= 4% chance of no underthrow/overthrow											
30	100PC= 56% chance of being no underthrow/overthrow											
31												

+ Quote



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

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buck

DARRELL GREEN



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

Posted June 12, 2013 (edited)

Report post

ok, love this thread and the PA hack is the best.

But, after looking at the attributes of the starting QBs of NES TSB - I'm thinking that PC should have been "completion/int" and PA should be "target ability".

(I understand that PC is more complicated, because of the "stuff" at x2BE14 (as noted above in the last few posts); and PA is just 16 values that get used in a calculation.)

Is there a simple way to re-assign the player PA attribute so that it points to the "PC table" at x2BE14 and is used for "on target"? And likewise, have the player PC attribute point to the "PA values" and be used as the "completion/int" variable?

yes - from jstout:

Quote

Change x29FEC from x87 to x88 and change the x88 to x87 in the PC/PA hack to reverse the values.

(ps - this is a reference to the thread I started: <http://tecmobowl.org/topic/55328-possible-to-swap-pc-and-pa-nes-tsb/?hl=%2Battributes> , but I realized maybe this here thread would be better place to raise the question instead)

EDIT - added jstout solution!

Edited June 12, 2013 by buck

[+](#) Quote

 1



quince3800 reacted to this

“The right to speak and the right to refrain from speaking are complementary components of ...
‘individual freedom of mind.’”

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