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By buck, January 13, 2009 in Hacking Documentation

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# Heavier weighting of COM run/pass ratio?

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### buck

DARRELL GREEN



#### Members **Q** 2,060

6,332 posts

Location: Tecmo Super

Street

Tecmo Titles: Lincoln V

(2015)

#### Posted January 13, 2009

How/where (0x) is the COM run/pass ratio set? I'd bet there's an adjustable probability setting somewhere - that tells COM to pick a run or pass, using the setting (0,1,2,3). I don't know where to look...

I'm specifically interested in amplifying the "extreme" settings -> settings of 1 (heavy rush) or 3 (heavy pass).

\*\*\*For example, I'd like a team with a "1" (heavy rush) to run the ball "even more" when I'm playing against them.

Quote



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

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### cxrom

Veteran





Members **O** 19

Posted January 14, 2009

i believe this is the code. the run/pass ratio is saved into \$A2 prior to executing \$AA84. changing the CMP #\$99 and CMP #\$B3 should do the trick.

(sorry, but the code tags always kill my tabs)

\$AA84:A5 A2

LDA \$00A2 = #\$00

; get run/pass ratio

```
$AA86:0A ASL
   373 posts
Location: Phoenix, AZ
                 $AA87:AA TAX
                 AA88:BD 4E AA LDA AA4E,X @ AA4F = \#AA; set jump address
                 $AA8D:BD 4F AA LDA $AA4F,X @ $AA50 = #$9E ;
                 $AA90:85 3F STA $003F = #$00
                 $AA92:6C 3E 00 JMP ($003E) = $0000
                                                               ; jump 1
                 ;-----;-#00------
                 $AA95:A5 40 LDA $0040 = #$7C ; keep play index from 0 to 7
                 $AA97:29 07
                           AND #$07 ;
                 AA99:85 40 STA 0040 = $7C ; save play index
                 $AA9B:4C 2A A7 JMP $A72A ; continue...
                 ;-----;-#01------
                 $AA9E:A5 40 LDA $0040 = #$7C ; if ( RAND > #$99 ) $AAA0:C9 99 CMP #$99 ;
                                    ;
                 $AAA2:90 0C BCC $AAB0 ;
                           LDA $0041 = #$81 ; get PLAY_RAND
                 $AAA4:A5 41
                 $AAA6:29 03 AND #$03 ;
                                           keep play index from 0 to 3
                 $AAA8:18
                            CLC
                 AAA9:69 04 ADC 40 ; adjust index into pass plays
                 $AAAB:85 40 STA $0040 = #$7C ; save play index
                 $AAAD:4C 2A A7 JMP $A72A ; continue...
                             ; else
                            LDA $0041 = #$81 ; get PLAY_RAND
                 $AAB0:A5 41
                 AAB2:29 03 AND $03 ; mask play index to run plays
                 AAB4:85 40 STA 0040 = $7C; save play index
                 $AAB6:4C 2A A7 JMP $A72A ; continue...
                 $AAB9:A5 40 LDA $0040 = #$7C ; if ( RAND > #$99 )
                 $AABB:C9 99 CMP #$99
$AABD:90 09 BCC $AAC8
                 $AABF:A5 41 LDA $0041 = #$81 ; get PLAY_RAND
                 $AAC1:29 03
                           AND #$03 ; mask play index to run plays
                 AAC3:85 40 STA 0040 = $7C; save play index
                 $AAC5:4C 2A A7 JMP $A72A ; continue...
                 $AAC8:A5 41 LDA $0041 = #$81 ; get PLAY_RAND
                 $AACA:29 03 AND #$03 ;
                                           keep play index from 0 to 3
                 $AACC:18 CLC
                 $AACD:69 04 ADC #$04
                                      ; adjust index into pass plays
                 $AACF:85 40 STA $0040 = #$7C ; save play index
```

```
$AAD1:4C 2A A7 JMP $A72A ; continue...
;-----;-#03------
$AAD4:A5 40 LDA $0040 = #$7C ; if ( RAND > #$B3 )
$AAD6:C9 B3 CMP #$B3 ;
$AAD8:90 09
         BCC $AAE3
```

```
$AADA:A5 41
                LDA $0041 = #$81
                                            get PLAY_RAND
$AADC:29 03
                                    mask play index to run plays
                AND #$03
$AADE:85 40
                STA $0040 = #$7C
                                            save play index
                                    continue...
$AAE0:4C 2A A7
                JMP $A72A
$AAE3:A5 41
                LDA $0041 = #$81
                                            get PLAY_RAND
$AAE5:29 03
                                    keep play index from 0 to 3
                AND #$03
$AAE7:18
                CLC
                                ;
$AAE8:69 04
                                    adjust index into pass plays
                ADC #$04
$AAEA:85 40
                                            save play index
                STA $0040 = #$7C
$AAEC:4C 2A A7
                                    continue...
                JMP $A72A
```

Quote



### buck DARRELL GREEN





Members **2**,060

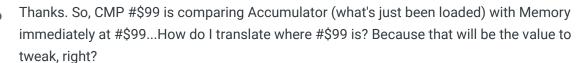
6,332 posts Location: Tecmo Super

Street

Tecmo Titles: Lincoln V

(2015)

Posted January 14, 2009





Ouote



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

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#### cxrom

Veteran 0000



Members **O** 19 373 posts Location: Phoenix, AZ Posted January 14, 2009

correct, these are the addresses i have:

\$AAA0:C9 99 CMP #\$99 at 0x018AB0 \$AABB:C9 99 CMP #\$99 at 0x018ACB \$AAD6:C9 B3 CMP #\$B3 at 0x018AE6

add 1 to each address to get to the immediate operand.



### buck

DARRELL GREEN





Members **2,060** 6,332 posts

Location: Tecmo Super

Street

Tecmo Titles: Lincoln V

(2015)

Posted January 14, 2009

cxrom said:

correct. these are the addresses i have:

\$AAA0:C9 99 CMP #\$99 at 0x018AB0

• • •

\$AABB:C9 99 CMP #\$99 at 0x018ACB

. .

\$AAD6:C9 B3 CMP #\$B3 at 0x018AE6

add 1 to each address to get to the immediate operand.

yep, thanks again cxrom.

I found that increasing the number results in the COM doing more of "it".

So, to make a "1 team" run "more", increase the number at 0x018AB1. Likewise, to make a "3 team" pass more, increase the number at 0x018AE7.

Now, just need to keep COM v COM testing to find the right amount of "more"...



Ouote



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

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#### Yak

Tecmo Fanatic



Posted January 18, 2009

Much interested in your results, sir.



Members **1,541** 

5,286 posts **Location:** Boston, MA

+

Quote





**DARRELL GREEN** 



Members **Q** 2,060

6,332 posts Location: Tecmo Super

Street Tecmo Titles: Lincoln V

(2015)

Posted January 18, 2009

YakMolester said:

Much interested in your results, sir.

Since I was focusing on the 1 and 3 levels, that's all I'll report here. I found that a value of xC0 causes a play ratio of 70% to 30%...which is what I was shooting for. Values higher (up to FF) will result in "whatever" being called at an even higher percentage. In summary:

Teams with a "1 (heavy rush)" and "C0" results: 209 plays = 147 runs + 62 passes => around 70% run.

Teams with a "3 (heavy pass)" and "C0" results: 149 plays = 107 passes + 42 runs => around 71% pass.

I've actually set this aside for a while - once I start doing more serious matchup testing with the rom I'm working on, I'll decide if xC0 is really enough (I'm dealing with Bronko Nagurski, here...)



Quote



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#### Yak

Tecmo Fanatic



Posted January 18, 2009



Nice, nice.



Members **O** 1,541

5,286 posts

Location: Boston, MA

Ouote



### SBlueman

Tecmo Legend



Posted February 11, 2017



@buck , would this be the set command to use for your take on the code:

#Heavier weighting of COM run/pass ratio

#http://tecmobowl.org/forums/topic/10511-heavier-weighting-of-com-runpas



Members **289** 1,048 posts

Location: San Jose, CA

SET(0x018AB1,xC0) SET(0x018AE7,xC0)

and would setting 0x018ACB to a value affect teams with more balanced offenses?

+

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Check out my latest release: <u>Tecmo Super Bowl 2020 - SBlueman</u>

### **Edition**

Check out my other releases: SBlueman's Downloads

Have any SET commands to share? Post 'em up in this thread: <u>SET Command List (Use with NES TSB & TSBTool)</u>

## bruddog

Down with button mashing



Moderators

**◆** 3,074 11,466 posts **Location:** Ca Posted February 11, 2017

The 4 offensive styles which are run if situational logic doesn't override them are

0 = random

1 = 60% run, 40% pass

2 = 40% run, 60% pass

3= 30% run, 70% pass

The value at 0x18AB1 sets how often the team runs for offensive playstyle 1= run heavy. The default value of 0x99 sets the default to 60% run/ 40% pass. Changing it to 0xC0 would make it 75% run. That's super heavy run.

However that value is also used if the com is leading in the 4th with less than 2 minutes left.

The value at 0x18AE7 is only used for the team style. Again changing to 0xC0 would make it 75% pass.





Posted February 11, 2017

yeah, that 75% run was for a specific old-school (1934 CHI) rom I was messing with.



Members **2**,060 6,332 posts

Location: Tecmo Super

Street

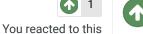
Tecmo Titles: Lincoln V

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SBlueman

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