



# Heavier weighting of COM run/pass ratio ?

By buck, January 13, 2009 in Hacking Documentation

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DARRELL GREEN



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

Posted January 13, 2009

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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.

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

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Veteran



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Posted January 14, 2009

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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          ;
$AA87:AA      TAX          ;
$AA88:BD 4E AA LDA $AA4E,X @ $AA4F = #$AA      ; set jump address
$AA8B:85 3E    STA $003E = #$00          ;
$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          ;
$AAA4:A5 41    LDA $0041 = #$81          ; get PLAY_RAND
$AAA6:29 03    AND #$03          ; keep play index from 0 to 3
$AAA8:18      CLC          ;
$AAA9:69 04    ADC #$04          ; adjust index into pass plays
$AAAB:85 40    STA $0040 = #$7C          ; save play index
$AAAD:4C 2A A7 JMP $A72A          ; continue...
; else
$AAB0:A5 41    LDA $0041 = #$81          ; get PLAY_RAND
$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...

;-----;#02-----
$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
$AACB: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    AND #03              ; mask play index to run plays
$AADE:85 40    STA $0040 = #7C        ; save play index
$AAE0:4C 2A A7  JMP $A72A            ; continue...

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

```

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**buck**

DARRELL GREEN



Members

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6,332 posts

**Location:** Tecmo Super Street

**Tecmo Titles:** Lincoln V (2015)

Posted January 14, 2009

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Thanks. So, CMP #99 is comparing Accumulator (what's just been loaded) with Memory immediately at #99...How do I translate where #99 is? Because that will be the value to tweak, right?

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**cxrom**

Veteran



Members

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373 posts

**Location:** Phoenix, AZ

Posted January 14, 2009

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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

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cxrom said:

correct. these are the addresses i have:

```

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...
$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"...



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# Yak

Tecmo Fanatic



Members

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**Location:** Boston, MA

Posted January 18, 2009

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Much interested in your results, sir.



buck

Posted January 18, 2009

Report post

DARRELL GREEN



Members

+ 2,060

6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

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...)

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Yak

Posted January 18, 2009

Report post

Tecmo Fanatic



Members

+ 1,541

5,286 posts

Location: Boston, MA

Nice, nice.

+ Quote



SBlueman

Posted February 11, 2017

Report post

Tecmo Legend



@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

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

bruddog

Down with button mashing



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Location: Ca

Posted February 11, 2017

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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.

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buck reacted to this



buck

DARRELL GREEN



Members

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6,332 posts

Location: Tecmo Super Street

Tecmo Titles: Lincoln V (2015)

Posted February 11, 2017

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

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