

# Tabla de Contenidos

Houston Tracker 2

Referencia v2.30

Drums

Efectos

Galería de imágenes

1

1

1

1

3



# Houston Tracker 2

- [Home page](#)
- [Manual](#)
- [Links](#)
- [GitHub](#)

## Software relacionado

- [TiLP - Ti Linking Program](#)
- [TI ROMS](#)
- [TiEm - An emulator and debugger for Texas Instruments Z80-based graphing calculators.](#)

## Referencia v2.30

### Drums

There are 15 different drums to chose from (0x1..0xF). Some of the drums use the TI-OS as sample data, so their sound may vary across different calculator models.

Drums can be played in different modes, which affects the way they sound. Use command Dxx to change the drum mode, with xx = 0x00..0x4f.

There are 80 different drum modes, though not all of them are particularly useful. Setting a non-zero value for the lower nibble of the parameter causes the drum data to be manipulated in various ways. Refer to the appendix on Synthesis Techniques for details about this functionality.

The upper nibble of the parameter defines the behaviour of the drum data pointer. The effects are as follows:



mode	cmd	effect
0	D00	<b>Increment pointer</b> , ie. use the "standard" drum set.
1	D1x	<b>Decrement pointer</b> , ie. use the "alternative" drum set. Generally speaking, these drums are less useful than the standard set. Also, some drums will produce unpredictable results, namely drum 0, 1, C, and D.
2	D2x	<b>Increment and loop pointer</b> . Even less useful than mode 1, and suffers from the same problems. Also, this mode causes a slight global pitch shift.
3	D3x	<b>Decrement and loop pointer</b> . Like mode 2, with different sounds.
4	D4x	<b>Don't move pointer</b> . Instead of drums, in this mode triggering a drum will play a fixed, most likely out-of-tune frequency. This mode causes a slight global pitch shift.

### Efectos

cmd	effect	description
1xx	SET PAN	<b>Set panning for all channels.</b> To determine how the panning will be set, you need to look at the individual bits of the effect parameter, starting at the rightmost one (aka bit 0). bit 0 set: pan ch1 right (add 0x1 to xx) bit 1 set: pan ch1 left (add 0x2) bit 0,1 reset: pan ch1 center (add nothing) bit 2 set: pan ch2 right (add 0x4) bit 3 set: pan ch2 left (add 0x8) bit 2,3 reset: pan ch2 center (add nothing) bit 4 set: pan ch3 right (add 0x10) bit 5 set: pan ch3 left (add 0x20) bit 4,5 reset: pan ch3 center (add nothing) bit 6 set: pan drums right (add 0x40) bit 7 set: pan drums left (add 0x80) bit 6,7 reset: pan drums center (add nothing)
2xx	PITCH SLIDEUP CH3	<b>Perform an upward pitch slide on channel 3.</b> xx defines the speed of the slide, lower values mean slower slides. xx can be any value, but beware that the pitch counter will eventually wrap. 200 disables the effect
3xx	PITCH SLIDE DOWN CH3	<b>Perform a downward pitch slide on channel 3.</b> Using this will disable effect 9xx. xx defines the speed of the slide, lower values mean slower slides. xx can be any value, but beware that the pitch counter will eventually wrap. 300 disables the effect.
4xx	DUTY CYCLE / NOISE CH1	<b>Set the duty cycle for channel 1, and toggle noise mode.</b> xx ≤ 0x80 - set duty cycle and disable noise mode xx > 0x80 - set duty cycle and enable noise mode
5xx	DUTY CYCLE / SWEEP CH2	<b>Set the duty cycle for channel 2, or enable duty cycle sweep.</b> xx ≤ 0x80 - set duty cycle and disable duty cycle sweep. A value of 0x80 produces the default 50:50 wave. Very low values will cause glitches. xx > 0x80 - enable SID-style duty cycle sweep. Sweep speed = (xx & 0x7F), 581 will produce the classic sweep effect known from HT versions ≤ 2.20. Some parameters are shared with effect 7xx, hence these two effects impact each other.
6xx	DUTY CYCLE / GRIND CH3	<b>Set the duty cycle for channel 3, and toggle grind mode.</b> xx ≤ 0x80 - set duty cycle and disable grind mode. xx > 0x80 - set duty cycle to "xx * 2 and 0xff" and enable grind mode.
7xx	AUTOCHORD / DRAWBAR CH2	<b>Add a chord or drawbar organ effect to channel 2.</b> xx < 0x80 - enable unsynced auto chord. The chord created varies depending on the note used, and is not necessarily harmonic. xx ≥ 0x80 - enable synced auto chord (drawbar organ effect). This will produce an octave chord, depending to some extent on the current duty setting. A higher value for xx will generally produce stronger harmonics. 700 switches off the effect. Some parameters are shared with effect 5xx, hence these two effects impact each other. See the description of effect 5xx for details.

cmd	effect	description
8xx	EXEC NOTE TABLE CH3	<b>Execute a given pattern as a note table for channel 3.</b> This effect operates on a per-tick basis. Execution starts after the first tick. xx is the pattern to be executed as note table. If the current tempo is greater than 0x10, table execution will continue at the following pattern. To disable the effect, set xx to a value greater than 0x7F. Using this effect will disable the Cxx (note cut ch1) effect.
9xx	GLITCH CH3	<b>Add a nasty glitch effect to channel 3.</b> xx can be any value, 900 turns off the effect.

Galería de imágenes



channel 1	channel 2	channel 3	drum&fx channel
00 00 02 01 00			
01 00 02 01 01			
02 03 04 05 02			
03 --- --- --- ---			
04 --- --- --- ---			
05 --- --- --- ---			
06 --- --- --- ---			
07 --- --- --- ---			
08 --- --- --- ---			
09 --- --- --- ---			

sequence row no.

HT2

A= 123D

LP 01

SP 10

BS 00

BE 00

D 5FCD

A1P

CA

CONF

PT 02 pattern no.

OC 0 current octave

0 ---	8 B-1
1 B-1	9 ---
2 ---	A B-1
3 ---	B B-1
4 ---	C B-0
5 ---	D B-1
6 ---	E B-2
7 ---	F B-3

notes

row numbers

HT2

A= 123D playback indicators

LP 01 loop point

SP 10 global song speed

BS 00 block start

BE 00 block end

D 5FCD user drum pointer

A1P AutoInc/RowPlay indicators

CA message area

CONF

alpha mode indicator

PT 01 pattern no.

0 1F20	8 8000
1 2000	9 A000
2 3000	A C000
3 4000	B C000
4 5000	C D000
5 6000	D E000
6 7000	E F000
7 8000	F 0000

drums

effect commands

effect parameters

HT2

A= 123D

LP 01

SP 10

BS 00

BE 00

D 5FCD

A1P

Last update:  
2021/04/14 17:35

music:trackers:houstontracker2 <https://filosofias.es/wiki/doku.php/music/trackers/houstontracker2?rev=1618421756>

---

From:  
<https://filosofias.es/wiki/> - **filosofias.es**

Permanent link:  
<https://filosofias.es/wiki/doku.php/music/trackers/houstontracker2?rev=1618421756>

Last update: **2021/04/14 17:35**

