THX

Dexter/Abyss!

THX ii

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THX

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Chapter 1

THX

1.1 THX Sound System v2.0! Documentation Guide

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1.2 About

About THX Sound System v2.0!

Generally:

We've tried to make the editor most comfortably to use, ~which~means~that we're using the same keymap and track format as~ProTracker~does. If you need any help, ~read the~ProTracker~doc -- hehehe or just press HELP in THX and get surprised (Press SHIFT-Help to open this Amiga-GUIDE) -- or contact any of the authors (Dexter or Pink).

We friendly ask you to read the in-built help (you'll need pt.font!) as there were many changes/additions in the track-/plist-commands!

Note: There are NO more~audio-hardware problems~(since~v1.00)!

*** Now you can use double-/triple-/quadruple-speed cia-timing, too. ***

1.3 Contacts

If you have ANY suggestions, bugreports or whatever then contact us!

THX Editor, Replayer and Documentation

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1.4 The Song Editor

The Song Editor

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Buttons: POS (Current POSition): The current position being (dis-)played LEN (SongLENgth): The length of the song in positions RES (REStart Position): The position where THX restarts the song at TRL (TRackLength): The length of the tracks in steps SS (SubSongs): Number of subsongs (exluding the mainsong!) SSN (SubSongNumber): Number of subsong to edit/play SSP (SubSongPosition): Position of subsong nr. SSN PLAY (PLAY Song): Play the current song at the current POSition STOP (STOP Playing): Stop any playing INS (INStrument Editor): Go to instrument editor NAME (NAME of the song): The Songname <LOAD> (LOAD Song): Load Song <01> (Instrument Number): The number of the current instrument Select the next highest instrument <UP> (Next Instrument): <DOWN> (Prev Instrument): Select the next lowest instrument <NAME> (Instrument NAME): Name of the current instrument <LOAD> (LOAD Instrument): Load Instrument

1.5 The Instrument Editor

The Instrument Editor

One Instrument consists of: Instrument Volume 0-64 reference the Volume chapter for more info. Wavelength~ 4-80~ Wavelength in bytes (\$4,\$8,\$10,\$20,\$40,\$80) the lower the value, the~higher~the instrument will sound. ---VOLUME ENVELOPE---Attack (Frames) 1-255 Number of frames (1/50 secs)~for~attacking Attack Volume 0 - 64to Attack Volume Number of frames (1/50 secs) for decaying Decay~(Frames)~ 1-255~ to Decay Volume Decay~Volume~ 0-64~ 1-255 Number of~frames~(1/50~secs) for sustain Sustain (Frames) 1-255 Number of~frames~(1/50~secs) for releasing Release (Frames) Release Volume 0 - 64to~Release~Volume ---VIBRATO CONTROL---Delay 0 - 255Delay until Vibrato starts (in~1/50~secs) Depth 0 - 150=No Vibrato, else Depth of~Vibrato Speed~ 0 - 63Speed of Vibrato (higher->faster Vibrato) ---SQUARE MODULATION---Lower Limit 1-63 Lower Limit of Square Modulation Upper~Limit~ Upper Limit of Square Modulation 1-63 S(quare)~Speed~ 1-255~ Speed in 1/50 seconds

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example: 6 means that every 6th. frame 1 modulation takes place

NEW: You needn't start IN the range anymore since v2.0! Your~start may~be~out of the range and thx will slide INTO the range and then~loop the~range, you may also set the initial slide-direction! (see cmd. 4 in pList!)

---FILTER MODULATION---

Lower Limit of Filter Modulation Lower Limit 1-63 Upper~Limit~ 1-63 Upper Limit of Filter Modulation 1-255~ F(ilter)~Speed~ 1: 4 modulations every frame (1/50 second) 2: 3 modulations every frame (1/50 second) $3: 2 \mod \text{ulations}$ every frame (1/50 second) 4: 1 modulation every frame (1/50 second) (would equal Square Speed 1 !!!) 5: 1 modulation every 2nd frame (1/50 sec) 6: 1 modulation every 3rd frame (1/50 sec) 7: 1 modulation every 4th frame (1/50 sec)

NEW You needn't start IN the range anymore since v2.0! Your~start may~be~out of the range and thx will slide INTO the range and then~loop the~range, you may also set the initial slide-direction (see cmd. 4 in pList!)

and so on.

---PERFORMANCE EDITOR---

Speed Length	1-255 0-255	Speed like speed in the tracks (Fxx cmd!) but here for the Performance List may be changed in perfList also~with~Fxx Length of Performance List (NEEDS to be	
Length	0-233	set to AT LEAST 1 if this instrument will be used!!)	
Hard Cut	0-7	<pre>0: No Hard Cut 1-7: Cut this instrument HardCut frames before a new instrument is hit! (only the next step is checked for an instrument)</pre>	
Release Cut	On/Off	Off: Sets InstrumentVolume to 0 (like EC) when it's time to HardCut (needs Hard Cut to be set to range 1-7) On: Fades the Current ADSR-Volume to the given RELEASE-Volume in HardCut frames in order to be at the release adsr-volume when the new instrument is being hit!	

---PERFORMANCE LIST---

000 C-1 o 3 320 000 001 --- o 0 000 000

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```
002 --- o 0 000 000
003 --- o 0 000 000
004 --- o 0 000 000

This would be a simple square wave with the relation $20:$20, indicated~by~320, 3 the cmd, 20 the parameter.

/\~C-1 with the UNfilled~sign means~that the C-1 is not fixed.

\/~If~you play E-3 in the track, then it will be a E-3

If you fix~the note by pressing RETURN the sign will be filled and if you have E-3~in~the~track C-1 would be played!

If you play an F-4 in the track with a NOT-fixed D-1 in the pList, then this would be ... take a look at this:

F-4 + D-1 (not-fixed) = G-1

F#4 + C-1 (not-fixed) = F#1

D-5 + G#3 (fixed) = G#3

D#3 + C-2 (not-fixed) = D#4
```

Note: You shouldn't play a square-wave without setting its relation (using cmd. 3) if you don't have anything special in mind!!

The others cmds are explained in the instrument editor's window... They~are~mostly~working like the ones of ProTracker... If you need some help on them or the NEW commands, then use the internal help (press the HELP key :-)

1.6 The Subsongs

The Subsongs

Number of subsongs (SS) IS NOT the number of songs in the THX module! There's always your main song (so called subsong 0) and then there are SS subsongs which means there are SS+1 songs alltogether. So if you just want to make a normal THX song, leave this field to 0.

Example: For a game you need 3 songs (Titel, Ingame and GameOver), so you have to set SS to 2.

Subsong Number (SSN) is the number of the subsong to edit/play.

Subsong Position (SSP) is the positinon to play at the entered Subsong.

Attention: If you use subsongs, RES (Restart position) will be active for the last subsong only !!! (Subsongs 0 and the rest except the last subsong have to loop themselves using the 0 and B cmd.

Back to the example: You have your main song (subsong 0) starting at position 0 (Titel), then enter 1 into SSN, then the position of the Ingame song to the SSP gadget. Enter 2 into SSN and then the position of the GameOver song into SSP.

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1.7 The Positions

The Position Editor

1.8 The Tracks

The Tracks

On the lower part of the screen you can see 4 tracks, which DO NOT urgently~have to represent the 4 voices being played... You can edit them~how you want. When playing the song the 4 tracks WILL represent the 4~voices!

Anyway, take a look at the internal THX help, just press HELP in THX!

Information: Octave 3 to 5 represent PTs Octave 1 to 3 !!!

Left to the first voice's track-nr. you can set a value between 1 and 4, which represent the player's cia-speed. You can now use double-/triple-quadruple-speed cia-timing to make more hardcare c64 tunes!

If THX is not in CIA mode, you can't set this value (stays 1) and you can't load double-/triple-/quadruple-speed thx-modules either. Use this option sparingly, as this will eat 2-/3-/4-times of the player's cpu-usage!

1.9 The Instruments

The Instruments

There are 63 instruments to use in a THX-Module.~THX-Instruments~can~also be loaded/saved using the Instruments-menu in the~main screen~or the LOAD button on~Instrument-Editor screen.

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Press CTRL and Left/Right to increase/decrease~the current~Instrument. Press ALT and F3/F4/F5 to Cut/Copy/Paste (to) the current Instrument. ~Press~0-9 on the Keypad to enter the lower digit of~the~instrument. Press~Enter on~the Keypad and then 0-9 to enter the upper~digit.

```
Example:~Enter+2+7 will~select instrument 27
+3 will select instrument 23
Enter+0 will select instrument 03
+7 will select instrument 07
```

1.10 The Volumes

The Volumes

The highest volume per voice is the so called "Voice Master Volume", which may be set using the CA0-CE0 command (in both, pList and Track). C50-C90 in the Tracks will set the Voice Master Volume for ALL 4 voices. Then there is the "Instrument Volume", which is set by the field Volume in the Instrument Editor and may be set using the C00-C40 command (in both, pList and Track).

The last volume THX has is the so called "perfSubVolume" which is a volume that is set to \$40 when you hit the instrument and may be set to any other value with the \$C50-\$C90 command in the pList only! This volume is to make relative volume effects in the instruments, just a short example:

```
Instrument 01: Volume 64 000 C-1 3 320 C90 001 --- 0 000 C80 002 --- 0 000 C70 003 --- 0 501 000
```

This Instrument can now be played with any volume you want (\$C00-\$C40 in the Tracks!), the volume sliding will keep!!

This Instrument won't do the same effect as Instrument 01, as the \$C40 / \$C30 / \$C20 command would override Instrument's volume 32 (xx) !!!

```
Well, I hope you got that principle :-)
```

The adsr is an other volume.. but u can't override it manually :-) You can only use HardCut w/ ReleaseCut On, which will override the adsr and set/jump to the Release-phase.

And in the replayer there's a main-volume, which cannot be set in THX (you shall set the Voice Master Volume on all 4 voices then (see 33 lines up!). It should be setable using a slider bar in the Editor (like the bar on DeliTracker!) but as I didn't succeed implementing a simple slider gadget, it's not there!!! So THX always plays at high volume and if you get a phone call the guy on the other end has to listen to THX sound, too! WHAT A PITY heheh:-)))

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1.11 Edit Commands/Shortcuts

Menu-Commands:

Edit Commands / Key Shortcuts

Play Song R-ALT: R-AMIGA: Play Position R-SHIFT:~ Record~Position Switch~between~edit/non-edit~mode or stop playing Space: Note-Keymap: Same as in~ProTracker F1-F5:~ Select current octave (Note: we're using >5< octaves!) Ocatves 3 to 5 represent PTs octaves 1-3 !! F6-F10: Jump to step 0, 16, 32, 48, 63 (if TrackLength~=~64) Tab: Jump to next voice Tab & L-ALT ~ Jump~to~next voice's note-column Tab & L-SHIFT Jump to previous voice Tab & CTRL Jump to current voice's note-column Toggle~Voices 0-3 on/off L-ALT &~YXCV:~ Del:~ Delete~Note / Pos Del & L-SHIFT: Delete Note + Command / Pos + Tranpose Del & L-ALT: Delete Commands / Transpose Ret & L-SHIFT: ~Insert~Empty~Note&CMD/Position at current step/position Ret & CTRL: Insert~Empty~CMD at~current step (also pList) BKSPC & L-SHIFT:~Drag~Note&CMD/Position one step/position up (pList) BKSPC & CTRL: Drag~CMD one~step up~(also pList) . (Keypad, =Del): Delete current~Instrument CTRL-M:~ Toggle Multi On/Off! No order yet! CTRL-Left/Right: Instrument up/down L-ALT & Left/R.: Track~up/down~ ~Kill Voices but don't switch (Key right to the L-Shift) editmode/testmode in opposition to SPACE. L-ALT &~F4:~Copy~instrument to buffer L-ALT &~F5:~ Paste~buffer to current instrument CTRL~&~B/C/V/I:~ Mark/Copy/Paste/Insert in Pos. Ed CTRL & B/C/V/I: Mark/Copy/Paste/Insert in Track Ed L-SHIFT~&~F3-F5: Cut/Copy/Paste Track CTRL & F3-F5: ~Cut/Copy/Paste~Track-Commands~only Swap Voices~in PosEd see pt! CTRL-T: CTRL-K: Kill to end of track CTRL-0 to 9: ~Editskip (TrackEd/pListEd) seperate~handled! (No display as in PT, sorry!) (L-ALT &) -/+/= Copy down command $w/\sim or \sim w/o \sim increasing/decreasing$ (100% pt, the 3 keys left to BKSPC!) (You don't need L-ALT when you're not in the note-field) L-SHIFT & Up/D.: Faster scrolling (3 steps at once), like in PT... CTRL & Up/Down: Scroll Positions while cursor's in Track-Editor and vice versa Switch~between~Main~Screen and Instrument Editor Esc: equals the INS/MAIN gadget) NOT the~keypad~one! Switch between Position/Track Ed. Return:~ Keypad-ENTER: Select upper instrument digit instead of lower Keypad-0 to 9: Enter instument's lower (w/ ENTER: upper) digit Caps-Lock: Set Test-Mode in instrument editor Toggle Fixing in instrument editor Return:

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```
L-AMIGA & L:~
               Load~THX-Module
L-AMIGA & S:
                Save THX-Module
L-AMIGA & C:
               ~Clear~ALL/Tracks/Pos/Ins of current Module
               About THX Sound System (MPEG anims ruule!??)
L-AMIGA & A:
L-AMIGA & Q:~ Quit~THX Sound System (keyboard shortcut works now)
L-AMIGA & P:
               Preferences
L-AMIGA & R:
                Toggle Rastertime display On/Off
                Toggle VolumeMeter display On/Off
L-AMIGA & O:
                L-AMIGA & V may be your SNAP-program, so i took O !!
SOON TO FOLLOW (IF YOU STILL HAVE OTHER SHORTCUT-REQUESTS -> EMAIL ME!)
- You can also use ctrl-a to toggle an
  audiochannel, and ctrl-q to unmute all
  channels. Ctrl+shift-a will solo the
- ctrl & e/o
- shft & 0-9
- transposing using alt & 1qay / 3edc
```

1.12 Track Commands

EFFECT COMMANDS

Effect commands on THX should be compatible with all other trackers.

```
0~-~None/JumpPos~Hi~~
8~-~Ext.~Timing~~
1~-~Portamento~Up~~~~
9~-~Overr.~Square
2~-~Portamento~Down~~
A~-~VolumeSlide~~
3~-~TonePortamento~~~
B~-~PositionJump~
4~-~Set/Overr.~Filter
C~-~Set~Volume~~~
5~-~ToneP~+~VolSlide~
D~-~PatternBreak~
 6 - * NOT USED *
E~-~Misc.~Cmds~~~
 7 - * NOT USED *
F~-~Set~Speed~~~~
 Cmd 0. Set Pos-Jump Hi [HiPos:$0-$9]
```

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Usage: \$0 + positionjump hi

Jumping to e.g. position 123 (decimal) must be done using Cmd. \$0 + \$01 and Cmd. \$B + \$23. Value will be reset to \$00 after jumping (using \$B) to the desired position.

Example: ---00002 0 is the command, 2 is positionjump hi

Cmd 1. Portamento up [Speed:\$00-\$FF]

Usage: \$1 + portamento speed

Cmd 2. Portamento down [Speed:\$00-FF]

sliderates, it will sound bad...

Usage: \$2 + portamento speed

Just like command 1, except that this one slides the pitch down instead. (Adds to the period).

You can NOT slide lower than C-1! (Period 856)

Example: C-300203 2 is the command, 3 is the portamentospeed.

Cmd 3. Tone-portamento [Speed:\$00-\$FF]

Usage: Dest-note + \$3 + slidespeed
WON'T WORK IF THE TRACK IS TRANSPOSED!!

This command will automatically slide from the old note to the new. You don't have to worry about which direction to slide, you need only set the slide speed. To keep on sliding, THX 11 / 17

Cmd 4. Set/O. Filter [\$01-\$3F,\$41-\$7F]

Usage: \$4 + filter / filter+\$40

Example: C-300405 4 is the command, 5 is filter \$05 (when Cmd 0 in pList), C-300443 4 is the command, 43 is filter \$03 and set filter immed.

Values \$01-\$3F will override Cmd.\$0 in pList and set the filter when it's set through Cmd.\$0 in the pList.
Add \$40 to the filter you want to set to set the filter immediately.

Cmd 5. ToneP + Volsl [Spd:\$0-\$F/\$0-\$F]

Usage: \$5 + upspeed + downspeed

This command will continue the current toneportamento and slide the volume at the same time. Stolen from NT2.0.

Example: C-300503 3 is the speed to turn the volume down.

C-300540 4 is the speed to slide it up.

Cmd 8. External Timing [User:\$01-\$FF]

Usage: \$8 + externaltimingdata

This command will set the External Timing byte in replayer's public-mem section. Refer to replayer's documentation for further information/usage.

Example: ---00827 27 is the value set for external timing.

Cmd 9. Set SquareRelation [SR:\$01-\$3F]

Usage: \$9 + square-relation

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This command will set the squarerelation (set in pList using Cmd.\$3xx)
immediately and will disable the first
\$3xx Cmd. (if appearing in the pList).
Example: C-300920 20 is the squarerelation
---00918 18 is the squarerelation

---00910 10 is the square-relation

Cmd A. Volumeslide [Speed:\$0-\$F/\$0-\$F]

Usage: \$A + upspeed + downspeed

Example: C-300A05 5 is the speed to turn the volume down.

C-300A40 4 is the speed to slide it up.

NOTE: The slide will be called as many times as the speed of the song. The slower the song, the more the volume will be changed on each note.

Cmd B. Position-jump [Pos:\$00-\$99]

Usage: \$B + position to continue at

Example: C-300B00 B is the command, 0 is the position to restart the song at.

This command will also perform a pattern-break (see 2 pages below).

You have to enter the position in decimal (NOT in hex as in PT). Use Cmd. \$0 to jump to positions >100.

Cmd C. Set volume [Volume:see below]

Usage: C+\$00-\$40: Instrument volume C+\$50-\$90: VMvol. 4 all voices C+\$40-\$60: Voice Master vol.

Well, this old familiar command will set the current volume to your own selected. The highest volume is \$40. All volumes are represented in hex. (Programmers do it in hex, you know!) THX 13 / 17

```
Example: C-300C10 C is the command,
     10 is the volume (16 decimal).
Cmd D. Pattern-break
     [Pattern-pos:00-63, decimal]
Usage: $D + pattern-position
This command just jumps to the next
song-position, and continues play
from the patternposition you specify.
Example: C-300D00 Jump to the next
   song-position and continue play
          from patternposition 00.
    Or: C-300D32 Jump to the next
   song-position and continue play
   from patternposition 32 instead.
            E - COMMANDS
The E command has been altered to
contain more commands than one.
E0- * NOT USED *
                    E8- * NOT USED *
E1- * NOT USED *
                     E9- * NOT USED *
E2- * NOT USED *
                    EA- * NOT USED *
E3- * NOT USED *
                    EB- * NOT USED *
E4- * NOT USED *
              EC-~NoteCut~~~~~
               E5- * NOT USED *
              ED-~NoteDelay~~~~
               E6- * NOT USED *
                                    EE- * NOT USED *
E7- * NOT USED *
                    EF- * NOT USED *
Cmd EC. Cut note [Value:$0-$F]
Usage: $EC + Tick to Cut note at.
This command will cut the note
at the selected tick, creating
extremely short notes.
Example: C-300F06 Set speed to 6.
        C-300EC3 Cut at tick 3 out
                  of 6.
Note that the note is not really cut,
the volume is just turned down.
Cmd ED. NoteDelay [Value:$1-$F]
______
```

Usage: \$ED + ticks to delay note.

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This command will delay the note to the selected tick.

Example: C-300F06 Set speed to 6. C-300ED3 Play note at tick 3 out of 6.

Cmd F. Set speed [Speed:\$00-\$FF]

Usage: \$F + speed

This command will set the speed of the song.

Vblank: Range 01-FF - Normal timing

CIA: Range 01-FF - Normal timing

Both: Range 00 - STOP song.

1.13 PerformanceList Commands

EFFECT COMMANDS (pList)

Effect commands on THX v2.0! should be compatible with older THX-Versions.

- 0 Init Filter
- 1 Portamento Up
- 2 Portamento Down
- 3 Init Square
- 4 Toggle Mod. (S+F)
- 5 Jump to Step
- 6 Volume (C)
- 7 Speed (F)

Cmd 0. Init Filter [Filter:\$01-\$3F]

Usage: \$0 + filter

Sets the filter.

Value \$01-\$1F: Low-Pass Filter

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\$01: heavy filtered \$1F: slightly filtered \$20: No filter (std. value) \$31-\$3F: High-Pass Filter \$21: slightly filtered \$3F: heavy filtered

Cmd 1. Portamento up [Speed:\$00-\$FF]

Iloago, ¢1 i portamento apod

Usage: \$1 + portamento speed Portamento up will simply slide the sample pitch up. You can NOT slide higher than B-5! (Period 113)

Example: C-3x103000 1 is the command, 3 is the portamentospeed. NOTE: The portamento will be called as many times as the speed of the pList. This means that you'll sometimes have trouble sliding accuratly. If you change the speed without changing the sliderates, it will sound bad...

Cmd 2. Portamento down [Speed:\$00-FF]

Usage: \$2 + portamento speed

Just like command 1, except that this one slides the pitch down instead. (Adds to the period).

You can NOT slide lower than C-1! (Period 856)

Example: C-3x203000 2 is the command, 3 is the portamentospeed.

Cmd 3. Init Square [Sq.-Rel:\$01-\$3F]

Usage: \$3 + square-relation

Sets the square-relation.

Values depend on the wavelength of the instr. !! Don't use lower values than:

Wavelength \$80: Range \$01-\$3F

\$40: Range \$02-\$3F

\$20: Range \$04-\$3F

\$10: Range \$08-\$3F

\$08: Range \$10-\$3F

\$04: Range \$20-\$3F

Only for SquareLowerLimit these Values will be corrected if a new WLen is set!

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Cmd 4. Toggle Mod. [\$00,\$1/\$f,\$1/\$f]

Usage: \$4+toggle filter/toggle square

The upper nibble will toggle filtermodulation, the lower nibble will toggle square-modulation:

Values \$1 for pos. start-signum/off
\$f for neg. start-signum/off
Cmd. \$4 + \$00 is kept compatible with
older THX-Versions and is the same as
Cmd. \$4 + \$01 (toggle squaremod. with
positive signum! NOW YOU CAN ALSO SET
THE START VALUE >OUT OF< THE RANGE!

Cmd 5. Position-jump [Pos:\$00-\$ff]

THEN THE SIGNUM WILL BE IGNORED!

Usage: \$5 + position to loop to

You have to enter the position in HEX-Values !!

Cmd C. Set volume [Volume:see below]

Usage: \$C+\$00-\$40: Instrument volume \$C+\$50-\$90: perfSub volume \$C+\$A0-\$E0: Voice Master vol.

Well, this old familiar command will set the current volume to your own selected. The highest volume is \$40. All volumes are represented in hex. (Programmers do it in hex, you know!) The perfSub volume is for relative volume in the instr. while you're playing the same instrument in the tracks only with other Instr. volume

Cmd F. Set pList-speed [Speed: \$00-\$FF]

Usage: \$F + pList-speed

This command will set the speed of the Performance List.

Vblank: Range 01-FF - Normal timing

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```
CIA: Range 01-FF - Normal timing

Both: 00 - STOP pList (don't use!-senseless! just set the pList-Length!)
```