

## AOZ Studio Beta - Bug #822

### Set Wave gets a type mismatch error

09/17/2021 11:08 PM - Brian Flanagan

<b>Status:</b>	Feedback	<b>Start date:</b>	09/17/2021
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Francois Lionet	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	1:00 hour
<b>Target version:</b>	none		
<b>Affected version:</b>	1.0.0 (B10) u16		

**Description**

The problem exists in both manifests.

For example: (from top of page 08.06.06 of AMOS Pro manual)

```
S$=""
For W=-128 To 127
  X=W : If X < 0 Then Add X,256
  S$=S$+Chr$(X)
Next W
Set Wave 2,S$
Wave 2 To 15 : For S=10 TO 60 : Play S,10 : Next S
```

Also, same error in example at bottom of page 08.01.06 of AMOS Pro manual: (renamed Shape\$ to Shpe\$ just to be safe.)

```
Shpe$="" : Degree
For S=0 To 255
  V=Int((Sin(S)/2+Sin(S*2+45)/4)*128)+127
  Shpe$ = Shpe$ + Chr$(V)
Next S
Set Wave 2,Shpe$
Wave 2 To 15
For N=10 TO 60 : Play N,10 : Next N
```

The same error is generated for both examples.

### History

#### #1 - 09/28/2021 03:12 PM - Francois Lionet

- Status changed from New to Feedback

Not new: Set Wave never worked. It will with the new sound engine, nmealy complete.

#### #2 - 10/21/2021 08:26 AM - Brian Flanagan

Re-tested in newest version as of 21 Oct 2021.

Set Wave still fails entirely in Amiga mode.

In AOZ mode, the command runs without errors, but the waveform used does not change.

Hope you get it finished soon. ;-)

Updated example:

```
#manifest: "aoz"
'
' Example 1
'
S$=""
For W=-128 To 127
  X=W : If X < 0 Then Add X,256
  S$=S$+Chr$(X)
Next W
```

```

Set Wave 2,S$
Wave 2 To 15

delay#=5
stp#=1

If Manifest$<>"amiga"
    delay#=delay#/60
    stp#=stp#/10
End If
Locate 0,0 : Print delay#,stp#

For P#=10 TO 60
    Locate 0,1
    Print Using "Delay: ###.##";delay#
    Print Using "Step: ###.##";stp#
    Print Using "Pitch:    ###";P#
    Play P#,delay#
Next P#

Cls
Print "New waveform set."
'
' Example 2
'
Shpe$="" : Degree
' Completely different waveform.
For S=0 To 255
    V=Int((Sin(S)/2+Sin(S*2+45)/4)*128)+127
    Shpe$ = Shpe$ + Chr$(V)
Next S
Set Wave 2,Shpe$
Wave 2 To 15
For N#=10 TO 60
    Locate 0,4
    Print Using "###";N#
    Play N#,delay#
Next N#

```