

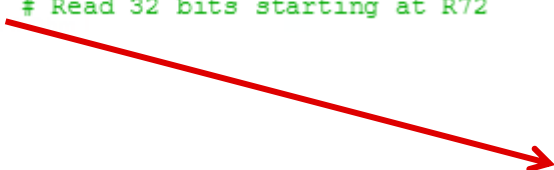
# TAS2563 Read Re from registers

Applications Engineering – Low Power Audio & Actuators

# Example

- $Re$  must be calculated from 32bit data on device Book 100, Page 2, Register 72 to 75
- Reading  $Re$  from device using this script:

```
1 w 98 00 00 # Write command at line 1
2 w 98 7f 64 # B0 Successfully written
3 w 98 00 02 # P2 # Write command at line 2
4 r 98 48 04 # Read 32 bits starting at R72 Successfully written
# Write command at line 3
Successfully written
# Read command at line 4 : r 98 48 04 # Read 32 bits starting at R72
41 bd 42 26
```



- Steps to get  $Re$  value:
  - Transform 32-bit data from Hex to Dec
  - Take value into floating point by dividing by  $2^{31}$
  - Take into 5.X format by multiplying by 16

# Example ctd.

- Calculate load Re:

Re	
Re Hex	4175bfcb
Re Dec	1098235851
Floating point (divide by $2^{31}$ )	0.51140592
5.x format (multiply by 16)	8.18249472