TAS2563 Read Re from registers

Applications Engineering – Low Power Audio & Actuators

Texas Instruments

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:

```
w 98 00 00
w 98 7f 64   # B0
w 98 00 02   # P2
r 98 48 04   # Read 32 bits starting at R72
```

```
# Write command at line 1
Successfully written
# Write command at line 2
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