

# ECGR 4101/S101 → Extra Notes - Ledwicz

Over 100 ms, the following task run: ①

Sample Frame	3 ms
Comp Frame	81 ms
Send Frame	0.3 ms
Rec Frame	0.3 ms
Decomp	8.1 ms

DTSP Fram	3 ms
Read Mic	0.005 ms
Comp Audio	0.8 ms
Send Audio	0.005 ms
Rec Audio	0.005 ms
Decomp	0.8 ms
Load Audio Buffer	0.005 ms

Audio time  
1.62 ms  
per 100ms,  
ISR will  
take  
0.325 ms

97.32 ms

Does not include:

- Overhead → changing tasks
- interrupts
- RTOS

$$\frac{97.32 \text{ ms}}{100.00 \text{ ms}} \rightarrow 97.32\% \text{ Utilization}$$

Through slide 16-18