1- Tasks

$$T_{1}(P=50)D=50$$
, $E=0.012)$ — Butter-1-Maniter

 $T_{2}(P=50)D=50$, $E=6.012$) — Butter-2-maniter

 $T_{3}(P=100)D=100$ $E=0.012$) — Pariedk-Transmitter

 $T_{4}(P=20)D=100$ $E=0.012$) — Vart-Receive

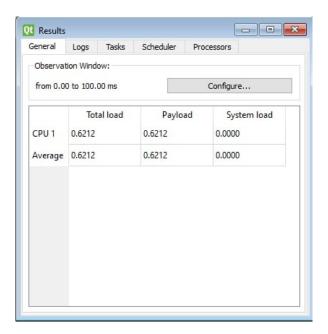
 $T_{5}(P=100)D=100$ $E=5$) — Load-1-Simulation

 $T_{6}(P=100)D=100$ $E=12$) — Load-2-Simulation

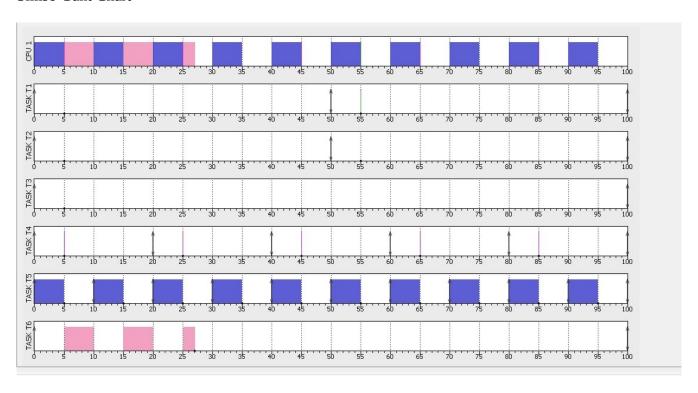
- 2- Hyper Period → 100 ms
- 3- Calculating CPU Load
 - * Manual

$$CPULoad = \begin{cases} \frac{E_1}{F_1} \\ = \frac{0.012}{50} + \frac{6.012}{50} + \frac{0.013}{160} + \frac{0.012}{20} \\ + \frac{5}{10} + \frac{12}{100} = 0.62|21 = 62.121\%$$

* Simso



Simso Gant Chart



* Keil Simulation

- Pin 16: Tick
- Pin 17: Button_1_Monitor
- Pin 18: Button_2_Monitor
- Pin 19: Periodic_Transmitter
- Pin 20: Uart_Receiver
- Pin 21: Load_1_Simulation
- Pin 22: Load_2_Simulation

