## Step 1:



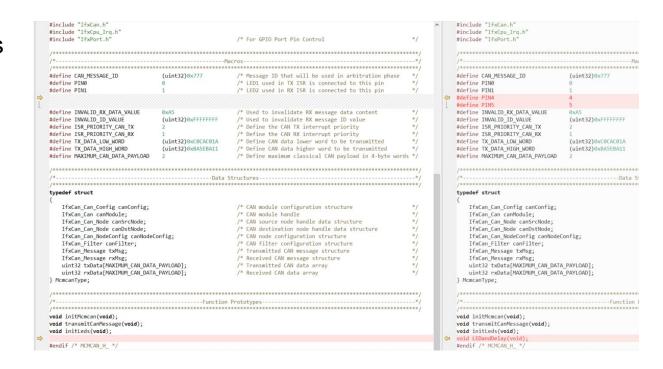
- cpu0\_main.c
  - LED blinking ~3 seconds
  - Transmit a CAN packet out

```
void core0 main(void)
                                                                                                                               void core0 main(void)
 IfxCpu enableInterrupts();
                                                                                                                                   IfxCpu enableInterrupts();
                                                                                                                                   /* !!WATCHDOGO AND SAFETY WATCHDOG ARE DISABLED HERE!!
 /* !!WATCHDOGO AND SAFETY WATCHDOG ARE DISABLED HERE!!
  * Enable the watchdogs and service them periodically if it is required
                                                                                                                                    * Enable the watchdogs and service them periodically if it is required
 IfxScuWdt_disableCpuWatchdog(IfxScuWdt_getCpuWatchdogPassword());
                                                                                                                                   IfxScuWdt_disableCpuWatchdog(IfxScuWdt_getCpuWatchdogPassword());
 IfxScuWdt_disableSafetyWatchdog(IfxScuWdt_getSafetyWatchdogPassword());
                                                                                                                                   IfxScuWdt_disableSafetyWatchdog(IfxScuWdt_getSafetyWatchdogPassword());
 /* Wait for CPU sync event */
                                                                                                                                   /* Wait for CPU sync event */
 IfxCpu_emitEvent(&g_cpuSyncEvent);
                                                                                                                                   IfxCpu_emitEvent(&g_cpuSyncEvent);
 IfxCpu_waitEvent(&g_cpuSyncEvent, 1);
                                                                                                                                   IfxCpu_waitEvent(&g_cpuSyncEvent, 1);
 /* Application code: initialization of MCMCAN module, LEDs and the transmission of the CAN message */
                                                                                                                                   /* Application code: initialization of MCMCAN module, LEDs and the transmission of the CAN message */
 initMcmcan();
                                                                                                                                   initMcmcan();
 initLeds();
                                                                                                                                   initLeds();
 transmitCanMessage();
                                                                                                                                   //transmitCanMessage();
 while(1)
                                                                                                                                   while(1)
                                                                                                                                       LEDandDelay();
```

# Step 2:



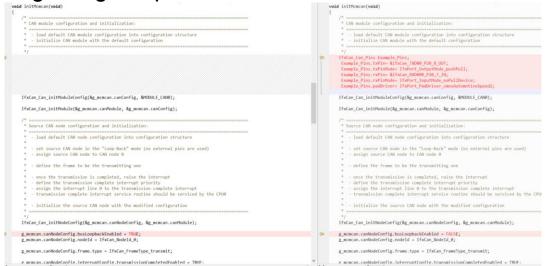
- Mcmcan.h
  - Add pin names
  - Add function names



# Step 3:

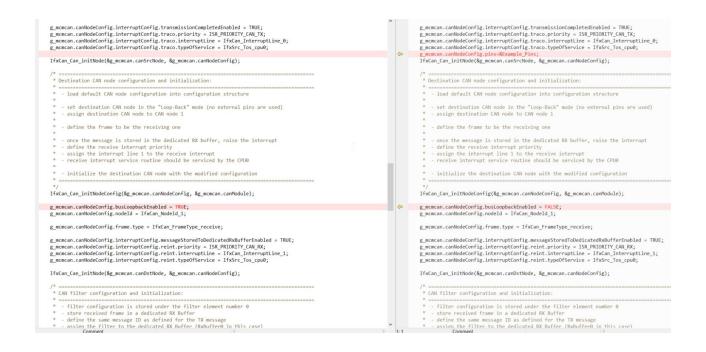


- Mcmcan.c
  - Add pin struct
  - Disable bus loopback for node 0 and node 1
  - canNodeConfig assigned pin struct member



#### Step 3:





## Step 4:



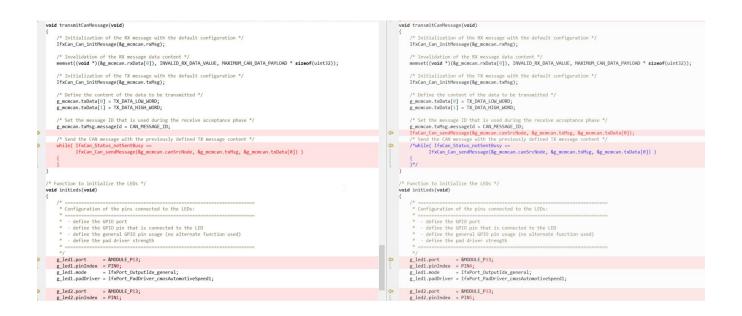
Add delay function and LED blinking

```
#define LOOP N 600
 //100 00 00 =1M
 //200 200 200 = 8 M
 //400 400 400 = 64 M
 //500 500 500 = 125M
 //600 600 600 = 198M
void LEDandDelay(void){
     int i,j,k,l;
    IfxPort setPinLow(g led1.port, g led1.pinIndex);
     for(i=0;i<LOOP_N;i++)
         for(j=0;j<LOOP_N;j++)</pre>
             for(k=0;k<L00P_N;k++)
                 k=k;
                 l=k+1;
    IfxPort_setPinHigh(g_led1.port, g_led1.pinIndex);
     for(i=0;i<LOOP_N;i++)
             for(j=0;j<LOOP_N;j++)</pre>
                 for(k=0;k<LOOP_N;k++)</pre>
                     k=k;
                     1=k+1;
```

## Step 5:



- Modify transmitCanMessage()
- Set LED pin definitions to P33.4 and P33.5



# Step 6:



- Ifxcan\_can.c
  - Change ifxCan\_Can\_initNodeConfig() for .baudRate

```
void IfxCan_Can_initNodeConfig(IfxCan_Can_NodeConfig *config, IfxCan_Can *can)
                                                                                                                         void IfxCan_Can_initNodeConfig(IfxCan_Can_NodeConfig *config, IfxCan_Can *can)
 const IfxCan Can NodeConfig defaultConfig = {
                                                                                                                            const IfxCan Can NodeConfig defaultConfig = {
                 = NULL PTR.
                                                                                                                                            = NULL PTR.
     .nodeId = IfxCan_NodeId_0,
                                                                                                                                .nodeId = IfxCan_NodeId_0,
     .clockSource = IfxCan_ClockSource_both,
                                                                                                                                 .clockSource = IfxCan_ClockSource_both,
     .frame = {
                                                                                                                                 .frame = {
         .type = IfxCan_FrameType_receive,
                                                                                                                                    .type = IfxCan_FrameType_receive,
         .mode = IfxCan_FrameMode_standard
                                                                                                                                    .mode = IfxCan_FrameMode_standard
     .baudRate
                                                                                                                                 .baudRate
         .baudrate = 500000.
                                                                                                                                    .baudrate = 500000.
         .samplePoint = 8000,
                                                                                                                                    .samplePoint = 8000,
         .syncJumpWidth = 3,
                                                                                                                                    .syncJumpWidth = 4,
                                                                                                                                    .prescaler = 0,
         .prescaler
         .timeSegment1 = 3,
                                                                                                                                    .timeSegment1 = 5,
         .timeSegment2 = 10
                                                                                                                                    .timeSegment2 = 10
```

#### \*CAN FD related



Kvaser CanKing for CAN FD

