UART

4

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2.2 main.c File Reference

```
#include <stdint.h>
#include <stdbool.h>
#include "user.h"
```

Functions

- int32_t main (void)

2.2.1 Function Documentation

2.2.1.1 main()

```
int32_t main (
            void  )
```

2.3 UART.c File Reference

```
#include "UART.h"
```

Functions

- void uart4_init (void)
- char uart4_getc (void)
- void uart4_putc (char c)
- void uart4_puts (char *s)
- void uart4_test (void)

2.3.1 Function Documentation

2.3.1.1 uart4_getc()

```
char uart4_getc (
            void  )
```

Function prototype:

void uart4_getc(void);

Description:

read char symboll from UART

Parameters:

none

Returns:

none

2.3.1.2 uart4_init()

```
void uart4_init (
            void  )
```

Function prototype:

void uart4_init(void);

Description:

initialize UART

Parameters:

none

Returns:

none

2.3.1.3 uart4_putc()

```
void uart4_putc (
            char c )
```

Function prototype:

void uart4_putc(char c);

Description:

put char symboll to UART

Parameters:

char symbol 'c'

Returns:

none

2.3.1.4 uart4_puts()

```
void uart4_puts (
            char * s )
```

Function prototype:

void uart4_puts(char *s);

Description:

put char array to UART

Parameters:

char array 's'

Returns:

none

2.3.1.5 uart4_test()

```
void uart4_test (
            void  )
```

Function prototype:

void uart4_test(void);

Description:

UART test and beginning program

Parameters:

none

Returns:

none

2.4 UART.h File Reference

```
#include <xc.h>
```

Functions

- void uart4_init (void)
- char uart4_getc (void)
- void uart4_putc (char c)
- void uart4_puts (char *s)
- void uart4_test (void)

2.4.1 Function Documentation

2.4.1.1 uart4_getc()

```
char uart4_getc (
            void  )
```

Function prototype:

void uart4_getc(void);

Description:

read char symboll from UART

Parameters:

none

Returns:

none

2.4.1.2 uart4_init()

```
void uart4_init (
            void  )
```

Function prototype:

void uart4_init(void);

Description:

initialize UART

Parameters:

none

Returns:

none

2.4.1.3 uart4_putc()

```
void uart4_putc (
            char c )
```

Function prototype:

void uart4_putc(char c);

Description:

put char symboll to UART

Parameters:

char symbol 'c'

Returns:

none

2.4.1.4 uart4_puts()

```
void uart4_puts (
            char * s )
```

Function prototype:

void uart4_puts(char *s);

Description:

put char array to UART

Parameters:

char array 's'

Returns:

none

2.4.1.5 uart4_test()

```
void uart4_test (
            void  )
```

Function prototype:

void uart4_test(void);

Description:

UART test and beginning program

Parameters:

none

Returns:

none

2.5 user.c File Reference

```
#include <stdint.h>
#include <stdbool.h>
#include "user.h"
#include <sys/attribs.h>
#include "UART.h"
```

Functions

- void init_gpio (void)
- void init_app (void)
- void turn_on_off_leds ()

2.5.1 Function Documentation

2.5.1.1 init_app()

```
void init_app (
            void  )
```

begins program

Parameters

out	*none*	
in	*none*	

Returns

none

2.5.1.2 init_gpio()

```
void init_gpio (
            void  )
```

initialize input output

Parameters

out	*none*	
in	*none*	

Returns

none

2.5.1.3 turn_on_off_leds()

```
void turn_on_off_leds ( )
```

all functional of programm

Parameters

out	*none*	
in	*none*	

Returns

none

2.6 user.h File Reference

```
#include <stdint.h>
```

Macros

- #define LD1_PORT_BIT LATGbits.LATG6
- #define LD2_PORT_BIT LATDbits.LATD4
- #define LD3_PORT_BIT LATBbits.LATB11
- #define LD4_PORT_BIT LATGbits.LATG15
- #define BTN1_PORT_BIT PORTAbits.RA5
- #define BTN2_PORT_BIT PORTAbits.RA4

Functions

- void init_app (void)

2.6.1 Macro Definition Documentation

2.6.1.1 BTN1_PORT_BIT

```
#define BTN1_PORT_BIT PORTAbits.RA5
```

2.6.1.2 BTN2_PORT_BIT

```
#define BTN2_PORT_BIT PORTAbits.RA4
```

2.6.1.3 LD1_PORT_BIT

```
#define LD1_PORT_BIT LATGbits.LATG6
```

2.6.1.4 LD2_PORT_BIT

```
#define LD2_PORT_BIT LATDbits.LATD4
```

2.6.1.5 LD3_PORT_BIT

```
#define LD3_PORT_BIT LATBbits.LATB11
```

2.6.1.6 LD4_PORT_BIT

```
#define LD4_PORT_BIT LATGbits.LATG15
```

2.6.2 Function Documentation

2.6.2.1 init_app()

```
void init_app (
            void  )
```

begins program

Parameters

out	*none*	
in	*none*	

Returns

none

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