

Softont 2025

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Chapter 1

Topic Index

1.1 Topics

Here is a list of all topics with brief descriptions:

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Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Chapter 3

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

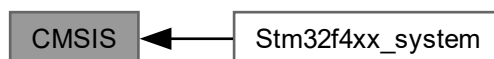
C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Inc/API_func.h	17
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C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Inc/Logic_layer.h : Header voor Logic_layer.c file. In dit bestand word de logic functie en struct gedefinieerd . . .	70
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C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/ub_lib/stm32_ub_vga_screen.h	104

Chapter 4

Topic Documentation

4.1 CMSIS

Collaboration diagram for CMSIS:



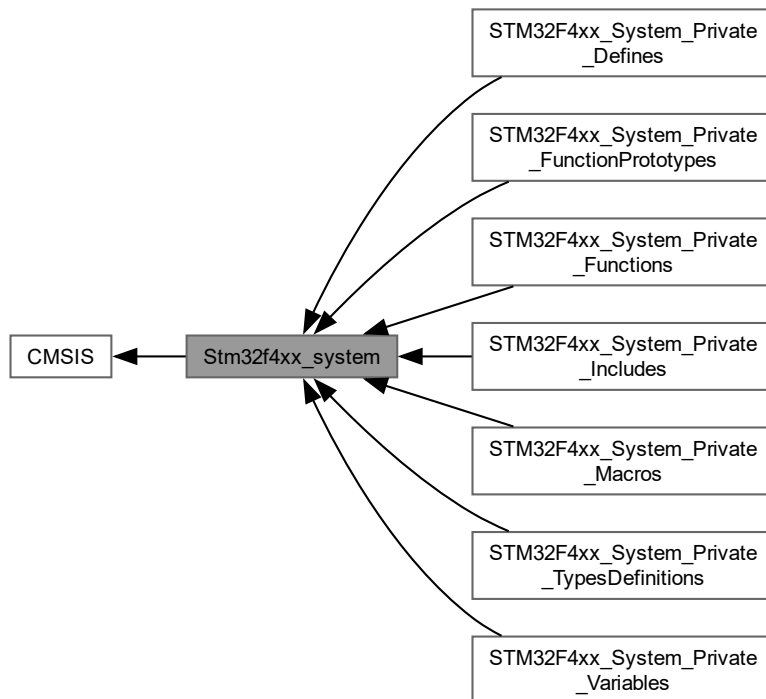
Topics

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4.1.1 Detailed Description

4.1.2 Stm32f4xx_system

Collaboration diagram for Stm32f4xx_system:



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4.1.2.1 Detailed Description

4.1.2.2 STM32F4xx_System_Private_Includes

Collaboration diagram for STM32F4xx_System_Private_Includes:



Macros

- `#define HSE_VALUE ((uint32_t)25000000)`
- `#define HSI_VALUE ((uint32_t)16000000)`

4.1.2.2.1 Detailed Description

4.1.2.2.2 Macro Definition Documentation

4.1.2.2.2.1 HSE_VALUE

```
#define HSE_VALUE ((uint32_t)25000000)
```

Default value of the External oscillator in Hz

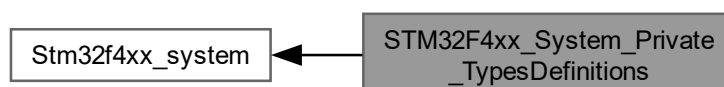
4.1.2.2.2.2 HSI_VALUE

```
#define HSI_VALUE ((uint32_t)16000000)
```

Value of the Internal oscillator in Hz

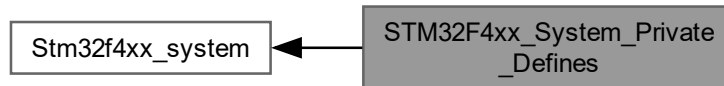
4.1.2.3 STM32F4xx_System_Private_TypesDefinitions

Collaboration diagram for STM32F4xx_System_Private_TypesDefinitions:



4.1.2.4 STM32F4xx_System_Private_Defines

Collaboration diagram for STM32F4xx_System_Private_Defines:



Macros

- `#define VECT_TAB_OFFSET 0x00`

4.1.2.4.1 Detailed Description

4.1.2.4.2 Macro Definition Documentation

4.1.2.4.2.1 VECT_TAB_OFFSET

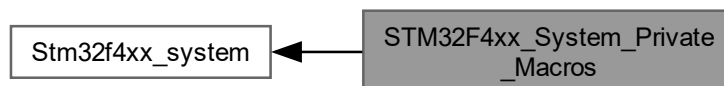
```
#define VECT_TAB_OFFSET 0x00
```

< Uncomment the following line if you need to use external SRAM or SDRAM as data memory

< Uncomment the following line if you need to relocate your vector Table in Internal SRAM. Vector Table base offset field. This value must be a multiple of 0x200.

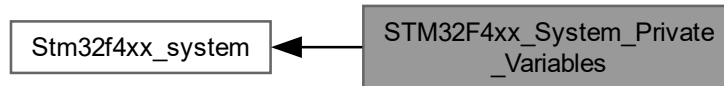
4.1.2.5 STM32F4xx_System_Private_Macros

Collaboration diagram for STM32F4xx_System_Private_Macros:



4.1.2.6 STM32F4xx_System_Private_Variables

Collaboration diagram for STM32F4xx_System_Private_Variables:



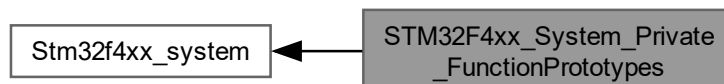
Variables

- uint32_t **SystemCoreClock** = 16000000
- const uint8_t **AHBPrescTable** [16] = {0, 0, 0, 0, 0, 0, 0, 0, 1, 2, 3, 4, 6, 7, 8, 9}
- const uint8_t **APBPrescTable** [8] = {0, 0, 0, 0, 1, 2, 3, 4}

4.1.2.6.1 Detailed Description

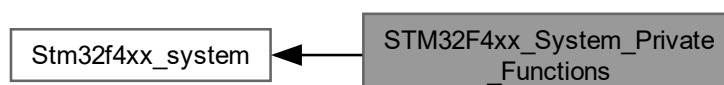
4.1.2.7 STM32F4xx_System_Private_FunctionPrototypes

Collaboration diagram for STM32F4xx_System_Private_FunctionPrototypes:



4.1.2.8 STM32F4xx_System_Private_Functions

Collaboration diagram for STM32F4xx_System_Private_Functions:



Functions

- void [SystemInit](#) (void)
Setup the microcontroller system Initialize the FPU setting, vector table location and External memory configuration.
- void [SystemCoreClockUpdate](#) (void)
Update SystemCoreClock variable according to Clock Register Values. The SystemCoreClock variable contains the core clock (HCLK), it can be used by the user application to setup the SysTick timer or configure other parameters.

4.1.2.8.1 Detailed Description

4.1.2.8.2 Function Documentation

4.1.2.8.2.1 SystemCoreClockUpdate()

```
void SystemCoreClockUpdate (  
    void )
```

Update SystemCoreClock variable according to Clock Register Values. The SystemCoreClock variable contains the core clock (HCLK), it can be used by the user application to setup the SysTick timer or configure other parameters.

Note

Each time the core clock (HCLK) changes, this function must be called to update SystemCoreClock variable value. Otherwise, any configuration based on this variable will be incorrect.

- The system frequency computed by this function is not the real frequency in the chip. It is calculated based on the predefined constant and the selected clock source:

- If SYSCLK source is HSI, SystemCoreClock will contain the [HSI_VALUE\(*\)](#)
- If SYSCLK source is HSE, SystemCoreClock will contain the [HSE_VALUE\(**\)](#)
- If SYSCLK source is PLL, SystemCoreClock will contain the [HSE_VALUE\(**\)](#) or [HSI_VALUE\(*\)](#) multiplied/divided by the PLL factors.

(*) HSI_VALUE is a constant defined in [stm32f4xx_hal_conf.h](#) file (default value 16 MHz) but the real value may vary depending on the variations in voltage and temperature.

(**) HSE_VALUE is a constant defined in [stm32f4xx_hal_conf.h](#) file (its value depends on the application requirements), user has to ensure that HSE_VALUE is same as the real frequency of the crystal used. Otherwise, this function may have wrong result.

- The result of this function could be not correct when using fractional value for HSE crystal.

Parameters

<i>None</i>	
-------------	--

Return values

<i>None</i>	
-------------	--

4.1.2.8.2.2 SystemInit()

```
void SystemInit (  
    void )
```

Setup the microcontroller system Initialize the FPU setting, vector table location and External memory configuration.

Parameters

<i>None</i>	
-------------	--

Return values

<i>None</i>	
-------------	--

Chapter 5

Class Documentation

5.1 ColorMap Struct Reference

Public Attributes

- const char * **name**
- int **value**

The documentation for this struct was generated from the following file:

- C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/[Logic.c](#)

5.2 FontInfo Struct Reference

Public Attributes

- const char * **name**
- uint16_t **size**
- uint16_t **num_chars**
- const uint16_t(* **index**)[4]
- const uint8_t * **data**

The documentation for this struct was generated from the following file:

- C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Inc/combined_charsets.h

5.3 input_vars Struct Reference

Public Attributes

- uint8_t **byte_buffer_rx** [BYTE_BUFLen]
- char **line_rx_buffer** [LINE_BUFLen]
- int **msglen**
- volatile int **char_counter**
- char **command_execute_flag**

The documentation for this struct was generated from the following file:

- C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Inc/[main.h](#)

5.4 LogicInterface Struct Reference

```
#include <Logic_layer.h>
```

Public Attributes

- char **function_name** [15]
- int **argument_len**
- char * **arguments**

5.4.1 Detailed Description

Struct voor het opslaan van een commando.

Parameters

<i>char</i>	function_name[15] Naam van de functie/commando.
<i>int</i>	arguments_len Lengte van de argumenten string.
<i>char</i>	*arguments Pointer naar de argumenten string.

Returns

Statuscode (0 = succes, anders fout).

The documentation for this struct was generated from the following file:

- C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Inc/[Logic_layer.h](#)

5.5 ParsedArgs Struct Reference

Public Attributes

- int **int_args** [MAX_ARGS]
- char **str_args** [MAX_ARGS][MAX_TOKEN_LEN]
- int **arg_count**

The documentation for this struct was generated from the following file:

- C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/[Logic.c](#)

5.6 VGA_t Struct Reference

Public Attributes

- uint16_t **hsync_cnt**
- uint32_t **start_adr**
- uint32_t **dma2_cr_reg**

The documentation for this struct was generated from the following file:

- C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/ub_lib/stm32_ub_vga_screen.h

Chapter 6

File Documentation

6.1 API_func.h

```
00001 /*
00002  * API_func.h
00003  *
00004  * Created on: 27 Nov 2025
00005  * Author: jerem
00006  */
00007
00008 /*
00009
00010 TODO:
00011 Add error check to all functions
00012 completer functions
00013
00014 */
00015
00016 #ifndef API_API_FUNC_H_
00017 #define API_API_FUNC_H_
00018
00019 #include <stdint.h>
00020 #include <errno.h>
00021 #include <stm32_ub_vga_screen.h>
00022
00037
00038 int API_draw_text(int x_lup, int y_lup, int color, char *text, char *fontname, int fontsize, int
fontstyle, int reserved);
00039
00053
00054 int API_draw_line(int x_1, int y_1, int x_2, int y_2, int color, int weight, int reserved);
00055
00070
00071 int API_draw_rectangle(int x, int y, int width, int height, int color, int filled, int reserved, int
reserved_2);
00072
00082
00083 int API_draw_bitmap(int x_lup, int y_lup, int bm_nr);
00084
00092
00093 int API_clearscreen(int color);
00094
00102
00103 int API_wait(int msec);
00104
00114
00115 int API_repeat_commands(int nr_previous_commands, int iterations, int reserved);
00116
00128
00129 int API_draw_circle(int x, int y, int radius, int color, int reserved);
00130
00151
00152 int API_draw_figure(int x_1, int y_1, int x_2, int y_2, int x_3, int y_3, int x_4, int y_4, int x_5,
int y_5, int color, int reserved);
00153
00154 #endif /* API_API_FUNC_H_ */
```


[illegible]

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[illegible]

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01042 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01043 0x00, 0x20, 0x80, 0xC4, 0xE4, 0xE0, 0xE0, 0xE0, 0xC0, 0xC0, 0xC0, 0xE0, 0xC0, 0xC0, 0xC0, 0xC0, 0xC0, 0xC0,
01044 0xA0, 0x80, 0x60, 0x40, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x60, 0x60,
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01046 0x60, 0x60, 0x60, 0x40, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01047 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x69, 0xA4, 0xC4, 0xC0, 0xC0, 0xE0, 0xE0,
01048 0xC0, 0xE4, 0xC0, 0xC0, 0xC0, 0xC0, 0xC0, 0xC0, 0xA0, 0x80, 0x40, 0x40, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20,
01049 0x20, 0x20, 0x40, 0x40, 0x20, 0x20, 0x40, 0x40, 0x60, 0x60, 0x40, 0x40, 0x40, 0x40, 0x60, 0x80, 0xA0,
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01182 0x00, 0x00, 0x00, 0x00, 0x92, 0xB6, 0xD6, 0xD6, 0xD6, 0xDA, 0xDA, 0xDA, 0xFA, 0xD6, 0xD6, 0xAD,
01183 0x69, 0x69, 0x89, 0x60, 0x40, 0x60, 0x60, 0x60, 0x80, 0x60, 0x80, 0x60, 0x60, 0x80, 0xA9, 0xCD,
01184 0xA9, 0xA5, 0xA4, 0xA0, 0x80, 0x80, 0x80, 0x80, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60,
01185 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x44, 0x44, 0x00, 0x00, 0x00, 0x00, 0xD6, 0xB6, 0xB2,
01186 0x8D, 0x8D, 0x91, 0xB2, 0x91, 0x8D, 0x92, 0xB2, 0x00, 0x00, 0x00, 0x00, 0x92, 0x92, 0xB6, 0xB6,
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01188 0x80, 0x60, 0x80, 0x80, 0x80, 0x80, 0x84, 0xA4, 0x80, 0x80, 0x80, 0x80, 0x60, 0x60, 0x60,
01189 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x40, 0x40, 0x44,
01190 0x00, 0x00, 0x00, 0x00, 0x00, 0xB6, 0xB6, 0x92, 0x8D, 0x6D, 0xB6, 0x91, 0x91, 0x92, 0xB2, 0x00,
01191 0x00, 0x00, 0x00, 0x00, 0x00, 0x92, 0xB2, 0xB6, 0xB2, 0xB2, 0xB6, 0xB2, 0x8D, 0x8D,
01192 0x8D, 0x44, 0x40, 0x40, 0x40, 0x60, 0x60, 0x60, 0x80, 0x60, 0x60, 0x80, 0x80, 0x80, 0x80,
01193 0x80, 0x60, 0x80, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60,
01194 0x60, 0x60, 0x60, 0x60, 0x60, 0x64, 0x64, 0x00, 0x00, 0x00, 0x00, 0x00, 0x92, 0x92, 0xB6,
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01196 0xB6, 0xB6, 0xB6, 0xB2, 0xB2, 0xB1, 0x8D, 0x8D, 0x8D, 0x20, 0x40, 0x40, 0x40, 0x60, 0x60, 0x60,
01197 0x60, 0x60, 0x60, 0x80, 0x80, 0x60, 0x60, 0x80, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60,
01198 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x40, 0x60, 0x64, 0x20, 0x00,
01199 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x92, 0x91, 0x91, 0x91, 0x91, 0x6D, 0x91, 0x00, 0x00,
01200 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xB6, 0x91, 0x91, 0xB2, 0xB2, 0x91, 0x8D, 0x8D, 0x8D, 0x6D,
01201 0x69, 0x44, 0x40, 0x40, 0x40, 0x40, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60,
01202 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60,
01203 0x40, 0x40, 0x40, 0x64, 0x44, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01204 0x6D, 0x92, 0x6D, 0x91, 0xDB, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xB6, 0xB6,
01205 0x91, 0xB2, 0x91, 0x8D, 0x91, 0x8D, 0x8D, 0x8D, 0x69, 0x68, 0x20, 0x40, 0x40, 0x40, 0x40, 0x60,
01206 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60,
01207 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x40, 0x60, 0x60, 0x64, 0x44, 0x00, 0x00, 0x00, 0x00,
01208 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
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01211 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60,
01212 0x60, 0x60, 0x44, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01213 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xB6,
01214 0xB6, 0xD6, 0xB2, 0x8D, 0x8D, 0x6D, 0x6D, 0x6D, 0x6D, 0x00, 0x00, 0x00, 0x00, 0x20, 0x40, 0x40,
01215 0x40, 0x40, 0x40, 0x60, 0x60, 0x60, 0x60, 0x60, 0x40, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60, 0x60,
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01216 0x60, 0x60, 0x60, 0x60, 0x60, 0x40, 0x60, 0x60, 0x64, 0x40, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01217 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01218 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xB2, 0x92, 0xB6, 0xB2, 0x91, 0x6D, 0x69, 0x6D,
01219 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40,
01220 0x40, 0x40, 0x40, 0x60, 0x60, 0x60, 0x60, 0x60, 0x40, 0x60, 0x40, 0x60, 0x64, 0x44, 0x20,
01221 0x20, 0x20, 0x40, 0x40, 0x40, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01222 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01223 0xFF, 0x92, 0x91, 0x8D, 0x6D, 0x8D, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01224 0x20, 0x20, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40,
01225 0x40, 0x40, 0x64, 0x64, 0x44, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01226 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01227 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
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01230 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
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01232 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01233 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x00,
01234 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01235 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01236 0x00, 0x00
01237 };
01238
01239 // smile_meme (59x60)
01240 const uint8_t smile_meme_bitmap_data[3542] = {
01241 0x3B, 0x3C, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01242 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01243 0xF9, 0xF9, 0xF9, 0xFD, 0xFE, 0xFE, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01244 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01245 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01246 0xFF, 0xFF, 0xFA, 0xD5, 0xD5, 0xD5, 0xD5, 0xD5, 0xD5, 0xD5, 0xD5, 0xD5, 0xD5, 0xD5, 0xD4, 0xD5, 0xD5,
01247 0xD5, 0xD5, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01248 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01249 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xF6, 0xD5, 0xD5, 0xF5, 0xF5, 0xD4,
01250 0xF4, 0xF4, 0xF4, 0xF8, 0xF9, 0xF9, 0xF9, 0xF9, 0xF8, 0xF4, 0xF4, 0xF5, 0xF5, 0xF5, 0xD5, 0xD5,
01251 0xF6, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01252 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01253 0xFF, 0xFB, 0xD2, 0x8C, 0x68, 0x68, 0xB0, 0xF5, 0xF4, 0xF4, 0xF8, 0xF8, 0xFC, 0xFD, 0xFD, 0xFD,
01254 0xFD, 0xFD, 0xFD, 0xFD, 0xF8, 0xF8, 0xF8, 0xF5, 0xF4, 0xD0, 0xD0, 0x88, 0x64, 0x8C, 0xD6, 0xFF,
01255 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01256 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01257 0xD4, 0xF4, 0xF8, 0xF8, 0xF8, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01258 0xFD, 0xFD, 0xF8, 0xF8, 0xF8, 0xF4, 0xF4, 0xF5, 0xB1, 0x44, 0x68, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01259 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01260 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01261 0xFD, 0xFD, 0xFD, 0xFD, 0xFE, 0xFE, 0xFE, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xF9,
01262 0xF8, 0xF9, 0xF5, 0xD5, 0xD5, 0x6C, 0x8C, 0xFA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01263 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01264 0xB1, 0x88, 0xF9, 0xF9, 0xD5, 0xF9, 0xF9, 0xF9, 0xF9, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFE, 0xFE,
01265 0xFE, 0xFE, 0xFD, 0xFD, 0xFE, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xF9, 0xF9, 0xF9, 0xF9, 0xD9, 0xF9,
01266 0xD5, 0x68, 0xB1, 0xFA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01267 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xD5, 0xD5, 0xB0, 0xD4, 0xF5, 0xD5, 0xB1,
01268 0x8C, 0x8D, 0x91, 0x91, 0xB1, 0xD9, 0xFE, 0xFD, 0xFD, 0xFE, 0xFE, 0xFE, 0xFE, 0xFD, 0xFD,
01269 0xFD, 0xFD, 0xFE, 0xD9, 0x91, 0x91, 0x91, 0x91, 0x90, 0xB0, 0xD5, 0xD5, 0xD5, 0xD0, 0xD5, 0xFA,
01270 0xFE, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01271 0xFF, 0xFF, 0xFF, 0xD5, 0xD5, 0xD4, 0xF8, 0xD5, 0xD9, 0x6C, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01272 0x91, 0xB5, 0xFD, 0xFE, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFE, 0xB5, 0x91, 0xD6,
01273 0xFF, 0xFF, 0xFF, 0xFF, 0xFE, 0x8C, 0xD5, 0xF5, 0xF4, 0xF4, 0xD5, 0xD5, 0xFF, 0xFF, 0xFF, 0xFF,
01274 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01275 0xF4, 0xF9, 0xD5, 0x6C, 0xFF, 0xFF, 0xB7, 0x97, 0x92, 0xB7, 0xDB, 0xFF, 0x95, 0xB5, 0xFD, 0xF4,
01276 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xB5, 0x96, 0xDF, 0xDF, 0x96, 0x72, 0x72, 0xBB, 0xFF,
01277 0xFB, 0x8C, 0xF5, 0xF4, 0xF4, 0xD4, 0xD5, 0xD5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01278 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xF5, 0xF5, 0xF4, 0xF4, 0xF9, 0xF8, 0x8C, 0xFF, 0xDB,
01279 0x72, 0x4E, 0x2A, 0x4E, 0x4A, 0x6E, 0xDB, 0xFF, 0x91, 0xDD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD,
01280 0xFD, 0xFE, 0x91, 0xDB, 0xDB, 0x4A, 0x2E, 0x4E, 0x2E, 0x2A, 0x93, 0xFF, 0xFA, 0x8C, 0xF9, 0xF4,
01281 0xF8, 0xD4, 0xD5, 0xD5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01282 0xFF, 0xFA, 0xF5, 0xF4, 0xF4, 0xF8, 0xF8, 0xD5, 0x91, 0xFF, 0x97, 0x2A, 0x4E, 0x05, 0x2A, 0xBB,
01283 0x72, 0x4E, 0xFE, 0xB6, 0xB5, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFE, 0xB5, 0xD6, 0xDB, 0x4A,
01284 0x93, 0xBB, 0x29, 0x09, 0x2A, 0x2A, 0x97, 0xFF, 0x8D, 0xF9, 0xF8, 0xF8, 0xF8, 0xF4, 0xD5, 0xFA,
01285 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01286 0xF4, 0xF8, 0xB0, 0xD6, 0xDB, 0x6E, 0x29, 0x05, 0x00, 0x92, 0xFF, 0xFF, 0xF4, 0xB6, 0xDB, 0x91,
01287 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0x90, 0xFB, 0xB7, 0x49, 0xFF, 0xFF, 0x72, 0x00, 0x25,
01288 0x49, 0x6E, 0xFB, 0xD6, 0xB4, 0xF8, 0xF8, 0xF4, 0xF4, 0xD4, 0xD5, 0xFA, 0xFF, 0xFF, 0xFF, 0xFF,
01289 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFE, 0xD5, 0xD4, 0xF4, 0xF4, 0xF8, 0xF4, 0xF4, 0xD1, 0xD5, 0xFB,
01290 0x48, 0xD0, 0x24, 0x00, 0x4D, 0xFF, 0xDB, 0x49, 0xB6, 0xFF, 0x90, 0xFD, 0xFD, 0xFD, 0xFC, 0xFD,
01291 0xFD, 0xFD, 0x90, 0xFA, 0xB6, 0x24, 0xFB, 0xFF, 0x6D, 0x04, 0x24, 0x49, 0x6D, 0xFB, 0xB5, 0xB4,
01292 0xF8, 0xF4, 0xF4, 0xF4, 0xF4, 0xD5, 0xD5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01293 0xF9, 0xD4, 0xF8, 0xF4, 0xF4, 0xF8, 0xF4, 0xF5, 0xD5, 0xD5, 0xD5, 0xD5, 0xD5, 0xB5, 0xD5,
01294 0xD5, 0x90, 0x68, 0xD6, 0xDA, 0xB0, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0x90, 0xFA, 0xD5,
01295 0x68, 0xB1, 0xB1, 0xD5, 0xD5, 0xB5, 0xB1, 0xD5, 0xB0, 0xD4, 0xF9, 0xF4, 0xF8, 0xF4, 0xF8,
01296 0xF4, 0xD4, 0xF9, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFA, 0xD5, 0xF4, 0xF4, 0xF8,
01297 0xF4, 0xF4, 0xD0, 0xD0, 0xF9, 0xF9, 0xF9, 0xF9, 0xF9, 0xF9, 0xF9, 0xF9, 0xD9, 0xD5, 0xD5,
01298 0xD5, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xD5, 0xB0, 0xD5, 0xF9, 0xF9, 0xF9, 0xF9, 0xF9, 0xF9,
01299 0xF9, 0xF9, 0xF9, 0xF9, 0xF9, 0xD4, 0xF4, 0xF4, 0xF4, 0xF8, 0xF4, 0xF8, 0xD4, 0xD5, 0xFA, 0xFF,
01300 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xD5, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4,
01301 0xF4, 0xF4, 0xF5, 0xF5, 0xF9, 0xF9, 0xF9, 0xF9, 0xF9, 0xFD, 0xF9, 0xF8, 0xF9, 0xFD, 0xFD,
01302 0xFD, 0xFD, 0xF9, 0xD4, 0xF9, 0xF9, 0xF9, 0xF9, 0xF9, 0xF5, 0xF5, 0xF5, 0xF4, 0xF4, 0xF4, 0xF4,
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01303    0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xD5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFA,
01304    0xD4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF0, 0xD0, 0xD0, 0xD0, 0xD4,
01305    0xF4, 0xF8, 0xF8, 0xFD, 0xFD, 0xF8, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xF8, 0xFD, 0xFD, 0xF9, 0xF9,
01306    0xF9, 0xF9, 0xF9, 0xF9, 0xF4, 0xD0, 0xD0, 0xD0, 0xD0, 0xD0, 0xF4, 0xF4, 0xF4, 0xF4, 0xF8, 0xF8,
01307    0xF8, 0xF4, 0xF4, 0xF4, 0xD4, 0xFA, 0xFF, 0xFF, 0xFF, 0xFF, 0xD5, 0xD4, 0xF8, 0xF4, 0xF4, 0xF4,
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01309    0xFD, 0xF9, 0xFD, 0xF9, 0xF9, 0xFD, 0xF9, 0xFD, 0xF8, 0xFC, 0xF8, 0xFD, 0xFD, 0xF9, 0xF8, 0xF8,
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01438 0xD0, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4,
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01462 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01463 };
01464
01465 // Klok (69x60)
01466 const uint8_t Klok_bitmap_data[4142] = {
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01468 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01469 0xDB, 0xB6, 0x71, 0x4D, 0x48, 0x48, 0x4D, 0x92, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01470 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
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01473 0xFF, 0xFF, 0xFF, 0xDB, 0x91, 0x4D, 0x28, 0x28, 0x28, 0x28, 0x28, 0x28, 0x28, 0x28, 0x48, 0x71,
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01475 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01476 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,

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01483 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01484 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01485 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01486 0x28, 0x28, 0x50, 0x95, 0x91, 0xCD, 0xC9, 0xCD, 0xE9, 0xE9, 0xC9, 0xC9, 0xC9, 0x8D, 0x91, 0x50,
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01488 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01489 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01490 0x28, 0x28, 0x28, 0x2C, 0x2C, 0x2C, 0x30, 0x75, 0x91, 0xC9, 0xC9, 0xCD, 0xCD, 0xCD, 0xC5, 0xC5,
01491 0xC5, 0xC9, 0xC9, 0x8D, 0x75, 0x30, 0x2C, 0x2C, 0x28, 0x28, 0x4D, 0x71, 0xB6, 0xDB, 0xFF,
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01566 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDA, 0x48, 0x28, 0x54, 0x54,
01567 0x95, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x4D, 0x04, 0x92, 0xDB, 0x4D, 0x96, 0xFF, 0xFF, 0xFF,
01568 0x92, 0x04, 0x49, 0xB6, 0xFF, 0xFF, 0xFF, 0x4D, 0x28, 0x72, 0xDB, 0xDB, 0x49, 0x28, 0x96, 0xFF,
01569 0x96, 0x04, 0x4D, 0xDB, 0xB6, 0x4D, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x91, 0x6D,
01570 0x50, 0x30, 0x28, 0x48, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01571 0xDA, 0x4D, 0x2C, 0x54, 0x50, 0x91, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF, 0x4D, 0x08, 0x72, 0x4D,
01572 0x28, 0xB6, 0xFF, 0xFF, 0xFF, 0x96, 0x04, 0x4D, 0xDB, 0xFF, 0xFF, 0x72, 0x04, 0x4D, 0xFF,
01573 0xFF, 0x96, 0x04, 0x49, 0xBB, 0x96, 0x04, 0x4D, 0x96, 0x29, 0x71, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01574 0xFF, 0xFF, 0xDF, 0x91, 0x6D, 0x50, 0x30, 0x28, 0x48, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01575 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDA, 0x48, 0x28, 0x54, 0x50, 0x71, 0xB6, 0xDF, 0xFF, 0xFF,
01576 0xFF, 0x4D, 0x08, 0x29, 0x28, 0x08, 0x71, 0xDF, 0xFF, 0xFF, 0x96, 0x04, 0x4D, 0xDB, 0xFF, 0xFF,
01577 0x29, 0x04, 0x71, 0xFF, 0xFF, 0xFF, 0xBB, 0x28, 0x08, 0x96, 0x92, 0x04, 0x29, 0x49, 0x04, 0x4D,
01578 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDF, 0x91, 0x6C, 0x50, 0x50, 0x2C, 0x48, 0xDB, 0xFF,
01579 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xB6, 0x28, 0x2C, 0x54, 0x70, 0x91,
01580 0xB6, 0xDF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x49, 0x04, 0x4D, 0x71, 0x08, 0x28, 0xB6, 0xFF, 0xFF, 0x92,
01581 0x04, 0x4D, 0xDB, 0xFF, 0xFF, 0xFF, 0x28, 0x04, 0x72, 0xFF, 0xFF, 0xFF, 0xDB, 0x28, 0x04, 0x72, 0x71,
01582 0x04, 0x08, 0x29, 0x08, 0x29, 0xBB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0x91, 0x48, 0x50,
01583 0x54, 0x2C, 0x48, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x91,
01584 0x28, 0x2C, 0x50, 0x50, 0x6D, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x29, 0x04, 0x96, 0xDB, 0x49,
01585 0x04, 0x71, 0xDF, 0xFF, 0x92, 0x04, 0x4D, 0xDB, 0xFF, 0xDB, 0x28, 0x08, 0x72, 0xFF, 0xFF, 0xFF,
01586 0xDB, 0x28, 0x04, 0x72, 0x71, 0x04, 0x49, 0x96, 0x28, 0x28, 0x96, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01587 0xFF, 0xDB, 0xB6, 0x6D, 0x50, 0x54, 0x2C, 0x48, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01588 0xFF, 0xFF, 0xFF, 0xFF, 0x6D, 0x28, 0x30, 0x50, 0x71, 0x91, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01589 0x29, 0x04, 0x96, 0xFF, 0x92, 0x04, 0x29, 0xB7, 0xFF, 0x92, 0x08, 0x4D, 0xDB, 0xFF, 0xDF, 0x29,
01590 0x08, 0x72, 0xFF, 0xFF, 0xFF, 0xFF, 0xBA, 0x28, 0x28, 0x96, 0xFF, 0x71, 0x04, 0x4D, 0xDB, 0x4D, 0x04, 0x71,
01591 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDF, 0xDA, 0x91, 0x71, 0x54, 0x30, 0x28, 0xB6, 0xFF, 0xFF,
01592 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x28, 0x30, 0x50, 0x71, 0x91, 0xDB,
01593 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x29, 0x08, 0x96, 0xFF, 0xDB, 0x29, 0x04, 0x71, 0xDF, 0x92, 0x04,
01594 0x4D, 0xDB, 0xFF, 0xFF, 0x4D, 0x04, 0x4D, 0xDB, 0xFF, 0xFF, 0x96, 0x08, 0x49, 0xDB, 0x92, 0x04,
01595 0x4D, 0xDB, 0x92, 0x04, 0x4D, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDF, 0xDB, 0xB5, 0x75, 0x54,
01596 0x30, 0x28, 0x91, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xB6, 0x28, 0x28,
01597 0x50, 0x50, 0x6D, 0x91, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x29, 0x28, 0x96, 0xFF, 0xFF, 0x4D,
01598 0x04, 0x28, 0x72, 0x4D, 0x04, 0x29, 0xB6, 0xDB, 0x92, 0x28, 0x28, 0x28, 0x96, 0xFF, 0xDB, 0x4D,
01599 0x28, 0x96, 0xFF, 0x71, 0x08, 0x4D, 0xDF, 0xBB, 0x28, 0x29, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF,
01600 0xFF, 0xDB, 0xB5, 0x95, 0x54, 0x50, 0x28, 0x6D, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01601 0xFF, 0xFF, 0x6D, 0x04, 0x2C, 0x30, 0x4C, 0x48, 0x91, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x29,
01602 0x08, 0x96, 0xFF, 0x92, 0x28, 0x28, 0x28, 0x29, 0x49, 0x4D, 0x4D, 0x4D, 0x4D, 0x4D, 0x96,
01603 0x4D, 0x4D, 0x4D, 0x4D, 0x4D, 0x96, 0xFF, 0x92, 0x28, 0x28, 0x28, 0x96, 0xDB, 0x4D, 0x28, 0x96,
01604 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0x95, 0x91, 0x54, 0x54, 0x28, 0x4D, 0xFF, 0xFF, 0xFF,
01605 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0x28, 0x04, 0x30, 0x30, 0x4C, 0x48, 0x92, 0xDB, 0xFF,
01606 0xFF, 0xFF, 0xFF, 0xDB, 0x28, 0x08, 0x96, 0xFF, 0xDB, 0xDB, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01607 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0xDB, 0xFF, 0xFF, 0xFF, 0xDB, 0xB6, 0x96, 0x92,
01608 0x96, 0xFF, 0x71, 0x08, 0x71, 0xDF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0x91, 0x71, 0x50, 0x54,
01609 0x2C, 0x28, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x91, 0x04, 0x28, 0x30, 0x30,
01610 0x48, 0x48, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x28, 0x08, 0x92, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01611 0xB6, 0xDB, 0xB6, 0xB6, 0xB6, 0xB6, 0x96, 0x96, 0xB6, 0x96, 0xDB, 0xFF, 0xB6, 0xBB, 0xB6, 0xDB,
01612 0xBB, 0xDF, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0x96, 0x08, 0x49, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01613 0xDB, 0xB6, 0x6D, 0x50, 0x50, 0x2C, 0x28, 0x92, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01614 0x48, 0x04, 0x2C, 0x30, 0x4C, 0x48, 0x91, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0x4D, 0x04, 0x04,
01615 0x28, 0x96, 0xDB, 0xB6, 0xDB, 0x71, 0x96, 0x72, 0x96, 0x6D, 0x92, 0x72, 0x72, 0x96, 0x71, 0xB6,
01616 0xFF, 0x72, 0x72, 0x4D, 0x92, 0x4D, 0x92, 0x71, 0x96, 0xDB, 0xDB, 0xFF, 0x71, 0x08, 0x28, 0x92,
01617 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0xB6, 0x48, 0x4C, 0x30, 0x30, 0x04, 0x6D, 0xFF, 0xFF, 0xFF,
01618 0xFF, 0xFF, 0xFF, 0xFF, 0xB6, 0x28, 0x28, 0x30, 0x50, 0x70, 0x6D, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF,
01619 0xFF, 0xB6, 0x4D, 0x71, 0x96, 0xB6, 0xDB, 0xFF, 0xFF, 0xFF, 0xDB, 0xDB, 0xDB, 0xFF, 0xFF, 0xFF,
01620 0xDB, 0xDB, 0xFF, 0xDB, 0xFF, 0xFF, 0xDB, 0xFF, 0xBB, 0xDB, 0xB6, 0xDB, 0xBA, 0xDB, 0xDB,
01621 0xDB, 0x49, 0x28, 0x08, 0x28, 0x71, 0xDB, 0xFF, 0xFF, 0xFF, 0xDB, 0xB6, 0x48, 0x4C, 0x30, 0x30,
01622 0x28, 0x48, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x6D, 0x08, 0x2C, 0x50, 0x50, 0x71, 0x91,
01623 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01624 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01625 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDF, 0xDB, 0xB6, 0x72, 0x71, 0xDB, 0xFF, 0xFF, 0xFF, 0xDB,
01626 0xBB, 0x6D, 0x6C, 0x30, 0x30, 0x2C, 0x28, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDA, 0x4D, 0x28,
01627 0x50, 0x54, 0x71, 0x91, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01628 0xFF, 0xFF, 0xB6, 0x92, 0xB6, 0xB6, 0xB6, 0xDB, 0xFF, 0xDA, 0xB6, 0xDA, 0xFF, 0xDA, 0xDA, 0xDA,
01629 0xDA, 0xDA, 0xFF, 0xDA, 0xDA, 0xDA, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01630 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0xB6, 0x6D, 0x50, 0x30, 0x30, 0x04, 0x4D, 0xFF, 0xFF, 0xFF,
01631 0xFF, 0xFF, 0x91, 0x28, 0x2C, 0x54, 0x54, 0x95, 0x91, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01632 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x91, 0x6D, 0x91, 0x71, 0x6C, 0x91, 0xFF, 0x91, 0x6D,
01633 0x92, 0xDB, 0x91, 0x6D, 0x91, 0xB6, 0x92, 0xDB, 0x91, 0x6D, 0x6D, 0x6D, 0x6D, 0x96, 0xFF, 0xFF,
01634 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDB, 0xDA, 0x8D, 0x6C, 0x30, 0x30,
01635 0x28, 0x28, 0xB6, 0xFF, 0xFF, 0xFF, 0xB6, 0x48, 0x28, 0x50, 0x54, 0x71, 0x91, 0xB6, 0xFF, 0xFF,
01636 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x91, 0x6D, 0x91, 0x91,
01637 0x6D, 0x92, 0xFF, 0xB6, 0x71, 0x92, 0xFF, 0x91, 0x6D, 0x92, 0xFF, 0xFF, 0xFF, 0xFF, 0x91, 0x6D, 0x96,
01638 0x91, 0x6C, 0x71, 0xDF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01639 0xDB, 0x91, 0x6D, 0x50, 0x50, 0x2C, 0x04, 0x6D, 0xFF, 0xFF, 0xFF, 0x6D, 0x08, 0x2C, 0x50, 0x50,
01640 0x71, 0x91, 0xDA, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01641 0xFF, 0x91, 0x6D, 0x71, 0x91, 0x6D, 0x96, 0xFF, 0xB6, 0x91, 0x96, 0xFF, 0x91, 0x6D, 0x6D, 0x91,
01642 0xB6, 0xFF, 0x91, 0x6D, 0x91, 0x91, 0x6D, 0xB6, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01643 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xB6, 0x91, 0x70, 0x50, 0x30, 0x28, 0x28, 0xB6, 0xFF, 0xB6,
01644 0x48, 0x28, 0x50, 0x50, 0x50, 0x6D, 0x91, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
01645 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x91, 0x6D, 0x92, 0xBA, 0x6D, 0x6D, 0xBA, 0x91, 0x6D, 0x92,
01646 0xDF, 0x91, 0x6C, 0x92, 0xDA, 0xDB, 0xFF, 0x91, 0x6D, 0x6D, 0x6D, 0x91, 0xDF, 0xFF, 0xFF, 0xFF,
01647 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xB7, 0xDA, 0x8D, 0x6D, 0x50, 0x50,
01648 0x2C, 0x28, 0x6D, 0xFF, 0x91, 0x28, 0x2C, 0x50, 0x50, 0x91, 0x91, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF,
01649 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xB6, 0x71, 0x92, 0x28, 0xB6, 0x6D,
01650 0x6D, 0xBA, 0x91, 0x6D, 0x92, 0xDB, 0x8D, 0x6D, 0x96, 0xFF, 0xFF, 0xDB, 0x91, 0x6D, 0x71, 0x6D,
```

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```

01999 };
02000
02001 #endif // BITMAPS_H

```

6.3 combined_charsets.h

```

00001 #ifndef COMBINED_CHARSETS_H
00002 #define COMBINED_CHARSETS_H
00003
00004 #include <stdint.h>
00005
00006 // Combined Character Sets - 8 fonts
00007
00008 // Font 1: arial
00009 // Characters: 95, Data size: 2282 bytes
00010
00011 const uint16_t arial_index[95][4] = {
00012     {32, 7, 14, 0}, // SPACE
00013     {33, 6, 14, 14}, // '!'
00014     {34, 8, 14, 28}, // '"'
00015     {35, 10, 14, 42}, // '#'
00016     {36, 10, 14, 70}, // '$'
00017     {37, 14, 14, 98}, // '%'
00018     {38, 11, 14, 126}, // '&'
00019     {39, 6, 14, 154}, // "'"
00020     {40, 8, 14, 168}, // '('
00021     {41, 8, 14, 182}, // ')'
00022     {42, 8, 14, 196}, // '*'
00023     {43, 10, 14, 210}, // '+'
00024     {44, 6, 14, 238}, // ','
00025     {45, 8, 14, 252}, // '-'
00026     {46, 6, 14, 266}, // '.'
00027     {47, 8, 14, 280}, // '/'
00028     {48, 10, 14, 294}, // '0'
00029     {49, 9, 14, 322}, // '1'
00030     {50, 10, 14, 350}, // '2'
00031     {51, 10, 14, 378}, // '3'
00032     {52, 10, 14, 406}, // '4'
00033     {53, 10, 14, 434}, // '5'
00034     {54, 10, 14, 462}, // '6'
00035     {55, 10, 14, 490}, // '7'
00036     {56, 10, 14, 518}, // '8'
00037     {57, 10, 14, 546}, // '9'
00038     {58, 6, 14, 574}, // ':'
00039     {59, 6, 14, 588}, // ';'
00040     {60, 10, 14, 602}, // '<'
00041     {61, 10, 14, 630}, // '='
00042     {62, 10, 14, 658}, // '>'
00043     {63, 10, 14, 686}, // '?'
00044     {64, 15, 14, 714}, // '@'
00045     {65, 12, 14, 742}, // 'A'
00046     {66, 11, 14, 770}, // 'B'
00047     {67, 11, 14, 798}, // 'C'
00048     {68, 11, 14, 826}, // 'D'
00049     {69, 10, 14, 854}, // 'E'
00050     {70, 10, 14, 882}, // 'F'
00051     {71, 12, 14, 910}, // 'G'
00052     {72, 11, 14, 938}, // 'H'
00053     {73, 6, 14, 966}, // 'I'
00054     {74, 9, 14, 980}, // 'J'
00055     {75, 11, 14, 1008}, // 'K'
00056     {76, 10, 14, 1036}, // 'L'
00057     {77, 12, 14, 1064}, // 'M'
00058     {78, 11, 14, 1092}, // 'N'
00059     {79, 12, 14, 1120}, // 'O'
00060     {80, 10, 14, 1148}, // 'P'
00061     {81, 12, 14, 1176}, // 'Q'
00062     {82, 11, 14, 1204}, // 'R'
00063     {83, 11, 14, 1232}, // 'S'
00064     {84, 10, 14, 1260}, // 'T'
00065     {85, 11, 14, 1288}, // 'U'
00066     {86, 12, 14, 1316}, // 'V'
00067     {87, 15, 14, 1344}, // 'W'
00068     {88, 11, 14, 1372}, // 'X'
00069     {89, 12, 14, 1400}, // 'Y'
00070     {90, 11, 14, 1428}, // 'Z'
00071     {91, 7, 14, 1456}, // '['
00072     {92, 8, 14, 1470}, // '\'
00073     {93, 7, 14, 1484}, // ']'
00074     {94, 10, 14, 1498}, // '^'
00075     {95, 11, 14, 1526}, // '_'
00076     {96, 8, 14, 1554}, // '`'
00077     {97, 10, 14, 1568}, // 'a'

```

```

00078     {98, 10, 14, 1596},    // 'b'
00079     {99, 10, 14, 1624},    // 'c'
00080     {100, 10, 14, 1652},   // 'd'
00081     {101, 10, 14, 1680},   // 'e'
00082     {102, 8, 14, 1708},    // 'f'
00083     {103, 10, 14, 1722},   // 'g'
00084     {104, 10, 14, 1750},   // 'h'
00085     {105, 6, 14, 1778},    // 'i'
00086     {106, 7, 14, 1792},   // 'j'
00087     {107, 9, 14, 1806},   // 'k'
00088     {108, 6, 14, 1834},    // 'l'
00089     {109, 12, 14, 1848},   // 'm'
00090     {110, 10, 14, 1876},   // 'n'
00091     {111, 10, 14, 1904},   // 'o'
00092     {112, 10, 14, 1932},   // 'p'
00093     {113, 10, 14, 1960},   // 'q'
00094     {114, 8, 14, 1988},    // 'r'
00095     {115, 10, 14, 2002},   // 's'
00096     {116, 8, 14, 2030},   // 't'
00097     {117, 10, 14, 2044},   // 'u'
00098     {118, 10, 14, 2072},   // 'v'
00099     {119, 14, 14, 2100},   // 'w'
00100     {120, 10, 14, 2128},   // 'x'
00101     {121, 10, 14, 2156},   // 'y'
00102     {122, 10, 14, 2184},   // 'z'
00103     {123, 8, 14, 2212},    // '{'
00104     {124, 6, 14, 2226},    // '|'
00105     {125, 8, 14, 2240},    // '}'
00106     {126, 10, 14, 2254},    // '~'
00107 };
00108
00109 const uint8_t arial_data[2282] = {
00110     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00111     0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00,
00112     0x00, 0x00, 0x28, 0x28, 0x28, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00113     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0A, 0x00, 0x0A, 0x00, 0x00, 0x3E, 0x00, 0x14, 0x00, 0x14, 0x00,
00114     0x3E, 0x00, 0x28, 0x00, 0x28, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00115     0x1C, 0x00, 0x2A, 0x00, 0x28, 0x00, 0x1C, 0x00, 0x0A, 0x00, 0x0A, 0x00, 0x2A, 0x00, 0x1C, 0x00,
00116     0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x80,
00117     0x25, 0x00, 0x25, 0x00, 0x1A, 0x00, 0x02, 0xC0, 0x05, 0x20, 0x05, 0x20, 0x08, 0xC0, 0x00, 0x00,
00118     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x12, 0x00, 0x12, 0x00,
00119     0x0C, 0x00, 0x14, 0x00, 0x23, 0x00, 0x22, 0x00, 0x1D, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00120     0x20, 0x20, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x10, 0x20, 0x20,
00121     0x20, 0x20, 0x20, 0x20, 0x10, 0x08, 0x00, 0x00, 0x00, 0x00, 0x20, 0x10, 0x10, 0x08, 0x08, 0x08,
00122     0x08, 0x08, 0x10, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x38, 0x10, 0x28, 0x00, 0x00,
00123     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
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00125     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x00, 0x00, 0x00,
00126     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x38, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00127     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08,
00128     0x10, 0x10, 0x10, 0x10, 0x20, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00129     0x00, 0x00, 0x1C, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00,
00130     0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x00,
00131     0x0C, 0x00, 0x14, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x00, 0x00,
00132     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x22, 0x00, 0x02, 0x00,
00133     0x02, 0x00, 0x04, 0x00, 0x08, 0x00, 0x10, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00134     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x22, 0x00, 0x02, 0x00, 0x1C, 0x00, 0x02, 0x00,
00135     0x02, 0x00, 0x22, 0x00, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00136     0x00, 0x00, 0x04, 0x00, 0x0C, 0x00, 0x14, 0x00, 0x14, 0x00, 0x24, 0x00, 0x3E, 0x00, 0x04, 0x00,
00137     0x04, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1E, 0x00,
00138     0x10, 0x00, 0x20, 0x00, 0x3C, 0x00, 0x02, 0x00, 0x02, 0x00, 0x22, 0x00, 0x1C, 0x00, 0x00, 0x00,
00139     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x22, 0x00, 0x20, 0x00,
00140     0x3C, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00141     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x04, 0x00, 0x04, 0x00, 0x08, 0x00, 0x08, 0x00,
00142     0x10, 0x00, 0x10, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00143     0x00, 0x00, 0x1C, 0x00, 0x22, 0x00, 0x22, 0x00, 0x1C, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00,
00144     0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00,
00145     0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x1E, 0x00, 0x02, 0x00, 0x22, 0x00, 0x1C, 0x00, 0x00, 0x00,
00146     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x00, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00,
00147     0x00, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00148     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0x00, 0x1C, 0x00, 0x20, 0x00,
00149     0x1C, 0x00, 0x02, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00150     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x00, 0x00,
00151     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00152     0x00, 0x00, 0x20, 0x00, 0x1C, 0x00, 0x02, 0x00, 0x1C, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00,
00153     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x22, 0x00, 0x02, 0x00,
00154     0x04, 0x00, 0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00155     0x00, 0x00, 0x07, 0xC0, 0x18, 0x20, 0x13, 0x50, 0x24, 0xD0, 0x28, 0x90, 0x28, 0x90, 0x29, 0xA0,
00156     0x26, 0xC0, 0x10, 0x10, 0x0F, 0xE0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00157     0x00, 0x00, 0x04, 0x00, 0x0A, 0x00, 0x0A, 0x00, 0x0A, 0x00, 0x11, 0x00, 0x1F, 0x00, 0x20, 0x80,
00158     0x20, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00,
00159     0x21, 0x00, 0x21, 0x00, 0x3F, 0x00, 0x21, 0x00, 0x21, 0x00, 0x21, 0x00, 0x3E, 0x00, 0x00, 0x00,
00160     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0E, 0x00, 0x11, 0x00, 0x00, 0x20, 0x00,
00161     0x20, 0x00, 0x20, 0x00, 0x20, 0x00, 0x11, 0x00, 0x0E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00162     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x22, 0x00, 0x21, 0x00, 0x21, 0x00, 0x21, 0x00,
00163     0x21, 0x00, 0x22, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00164     0x00, 0x00, 0x3E, 0x00, 0x20, 0x00, 0x20, 0x00, 0x3E, 0x00, 0x20, 0x00, 0x20, 0x00, 0x20, 0x00,

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00238 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x22, 0x00,
00239 0x22, 0x00, 0x22, 0x00, 0x26, 0x00, 0x1A, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00240 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x22, 0x00, 0x14, 0x00, 0x14, 0x00,
00241 0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00242 0x00, 0x00, 0x00, 0x00, 0x22, 0x20, 0x25, 0x20, 0x15, 0x40, 0x15, 0x40, 0x08, 0x80, 0x08, 0x80,
00243 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00244 0x22, 0x00, 0x14, 0x00, 0x08, 0x00, 0x08, 0x00, 0x14, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x00,
00245 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x22, 0x00, 0x14, 0x00, 0x14, 0x00,
00246 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00247 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x04, 0x00, 0x08, 0x00, 0x08, 0x00,
00248 0x10, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x00, 0x08, 0x10, 0x10, 0x10, 0x20, 0x10, 0x10, 0x10,
00249 0x10, 0x08, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20,
00250 0x00, 0x00, 0x00, 0x00, 0x20, 0x10, 0x10, 0x10, 0x08, 0x10, 0x10, 0x10, 0x20, 0x00, 0x00,
00251 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
```

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00252     0x3A, 0x00, 0x2C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
00253 };
00254
00255 // Font 2: arial
00256 // Characters: 95, Data size: 4968 bytes
00257
00258 const uint16_t arial_2_index[95][4] = {
00259     {32, 10, 24, 0}, // SPACE
00260     {33, 8, 24, 48}, // '!'
00261     {34, 12, 24, 72}, // '"'
00262     {35, 16, 24, 120}, // '#'
00263     {36, 16, 24, 168}, // '$'
00264     {37, 24, 24, 216}, // '%'
00265     {38, 18, 24, 288}, // '&'
00266     {39, 8, 24, 360}, // "'"
00267     {40, 12, 24, 384}, // '('
00268     {41, 12, 24, 432}, // ')'
00269     {42, 12, 24, 480}, // '*'
00270     {43, 16, 24, 528}, // '+'
00271     {44, 8, 24, 576}, // ','
00272     {45, 12, 24, 600}, // '-'
00273     {46, 8, 24, 648}, // '.'
00274     {47, 12, 24, 672}, // '/'
00275     {48, 16, 24, 720}, // '0'
00276     {49, 14, 24, 768}, // '1'
00277     {50, 16, 24, 816}, // '2'
00278     {51, 16, 24, 864}, // '3'
00279     {52, 16, 24, 912}, // '4'
00280     {53, 16, 24, 960}, // '5'
00281     {54, 16, 24, 1008}, // '6'
00282     {55, 16, 24, 1056}, // '7'
00283     {56, 16, 24, 1104}, // '8'
00284     {57, 16, 24, 1152}, // '9'
00285     {58, 8, 24, 1200}, // ':'
00286     {59, 8, 24, 1224}, // ';'
00287     {60, 16, 24, 1248}, // '<'
00288     {61, 16, 24, 1296}, // '='
00289     {62, 16, 24, 1344}, // '>'
00290     {63, 16, 24, 1392}, // '?'
00291     {64, 26, 24, 1440}, // '@'
00292     {65, 20, 24, 1536}, // 'A'
00293     {66, 18, 24, 1608}, // 'B'
00294     {67, 18, 24, 1680}, // 'C'
00295     {68, 18, 24, 1752}, // 'D'
00296     {69, 16, 24, 1824}, // 'E'
00297     {70, 16, 24, 1872}, // 'F'
00298     {71, 20, 24, 1920}, // 'G'
00299     {72, 18, 24, 1992}, // 'H'
00300     {73, 8, 24, 2064}, // 'I'
00301     {74, 14, 24, 2088}, // 'J'
00302     {75, 18, 24, 2136}, // 'K'
00303     {76, 16, 24, 2208}, // 'L'
00304     {77, 20, 24, 2256}, // 'M'
00305     {78, 18, 24, 2328}, // 'N'
00306     {79, 20, 24, 2400}, // 'O'
00307     {80, 16, 24, 2472}, // 'P'
00308     {81, 20, 24, 2520}, // 'Q'
00309     {82, 18, 24, 2592}, // 'R'
00310     {83, 18, 24, 2664}, // 'S'
00311     {84, 16, 24, 2736}, // 'T'
00312     {85, 18, 24, 2784}, // 'U'
00313     {86, 20, 24, 2856}, // 'V'
00314     {87, 26, 24, 2928}, // 'W'
00315     {88, 18, 24, 3024}, // 'X'
00316     {89, 20, 24, 3096}, // 'Y'
00317     {90, 18, 24, 3168}, // 'Z'
00318     {91, 10, 24, 3240}, // '['
00319     {92, 12, 24, 3288}, // '\'
00320     {93, 10, 24, 3336}, // ']'
00321     {94, 16, 24, 3384}, // '^'
00322     {95, 18, 24, 3432}, // '_'
00323     {96, 12, 24, 3504}, // '`'
00324     {97, 16, 24, 3552}, // 'a'
00325     {98, 16, 24, 3600}, // 'b'
00326     {99, 16, 24, 3648}, // 'c'
00327     {100, 16, 24, 3696}, // 'd'
00328     {101, 16, 24, 3744}, // 'e'
00329     {102, 12, 24, 3792}, // 'f'
00330     {103, 16, 24, 3840}, // 'g'
00331     {104, 16, 24, 3888}, // 'h'
00332     {105, 8, 24, 3936}, // 'i'
00333     {106, 10, 24, 3960}, // 'j'
00334     {107, 14, 24, 4008}, // 'k'
00335     {108, 8, 24, 4056}, // 'l'
00336     {109, 20, 24, 4080}, // 'm'
00337     {110, 16, 24, 4152}, // 'n'
00338     {111, 16, 24, 4200}, // 'o'
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00339     {112, 16, 24, 4248}, // 'p'
00340     {113, 16, 24, 4296}, // 'q'
00341     {114, 12, 24, 4344}, // 'r'
00342     {115, 16, 24, 4392}, // 's'
00343     {116, 12, 24, 4440}, // 't'
00344     {117, 16, 24, 4488}, // 'u'
00345     {118, 16, 24, 4536}, // 'v'
00346     {119, 24, 24, 4584}, // 'w'
00347     {120, 16, 24, 4656}, // 'x'
00348     {121, 16, 24, 4704}, // 'y'
00349     {122, 16, 24, 4752}, // 'z'
00350     {123, 12, 24, 4800}, // '{'
00351     {124, 8, 24, 4848}, // '|'
00352     {125, 12, 24, 4872}, // '}'
00353     {126, 16, 24, 4920} // '~'
00354 };
00355
00356 const uint8_t arial_2_data[4968] = {
00357     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00358     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00359     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00360     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18,
00361     0x18, 0x18, 0x18, 0x18, 0x00, 0x00, 0x18, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00362     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x19, 0x80, 0x19, 0x80, 0x19, 0x80,
00363     0x19, 0x80, 0x19, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00364     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00365     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x03, 0x30, 0x03, 0x30, 0x03, 0x30,
00366     0x3F, 0xF0, 0x3F, 0xF0, 0x0C, 0xC0, 0x0C, 0xC0, 0x0C, 0xC0, 0x0C, 0xC0, 0x3F, 0xF0, 0x3F, 0xF0,
00367     0x33, 0x00, 0x33, 0x00, 0x33, 0x00, 0x33, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00368     0x00, 0x00, 0x00, 0x00, 0x0F, 0xC0, 0x0F, 0xC0, 0x33, 0x30, 0x33, 0x30, 0x33, 0x30, 0x33, 0x30,
00369     0x0F, 0xC0, 0x0F, 0xC0, 0x03, 0x30, 0x03, 0x30, 0x03, 0x30, 0x03, 0x30, 0x03, 0x30, 0x33, 0x30,
00370     0x0F, 0xC0, 0x0F, 0xC0, 0x03, 0x30, 0x03, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00371     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00372     0x0F, 0x03, 0x00, 0x0F, 0x03, 0x00, 0x30, 0xCC, 0x00, 0x30, 0xCC, 0x00, 0x30, 0xCC, 0x00, 0x30,
00373     0xCC, 0x00, 0x0F, 0x30, 0x00, 0x0F, 0x30, 0x00, 0x00, 0x33, 0xC0, 0x00, 0x33, 0xC0, 0x00, 0x00,
00374     0x30, 0x00, 0xCC, 0x30, 0x00, 0xCC, 0x30, 0x00, 0xCC, 0x30, 0x03, 0x03, 0x03, 0x03, 0x03, 0x03,
00375     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00376     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0xE0, 0x00, 0x01, 0xE0, 0x00, 0x00, 0x06, 0x18,
00377     0x00, 0x06, 0x18, 0x00, 0x06, 0x18, 0x00, 0x06, 0x18, 0x00, 0x06, 0x18, 0x00, 0x01, 0xE0, 0x00,
00378     0x06, 0x60, 0x00, 0x06, 0x60, 0x00, 0x18, 0x1E, 0x00, 0x18, 0x1E, 0x00, 0x18, 0x18, 0x00, 0x18,
00379     0x18, 0x00, 0x07, 0xE6, 0x00, 0x07, 0xE6, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00380     0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00381     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00,
00382     0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00,
00383     0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x06, 0x00, 0x06, 0x00, 0x01, 0x80, 0x01, 0x80,
00384     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x18, 0x00, 0x06, 0x00, 0x06, 0x00,
00385     0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80,
00386     0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00, 0x18, 0x00, 0x18, 0x00,
00387     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00388     0x06, 0x00, 0x06, 0x00, 0x1F, 0x80, 0x1F, 0x80, 0x06, 0x00, 0x06, 0x00, 0x19, 0x80, 0x19, 0x80,
00389     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00390     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00391     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80,
00392     0x1F, 0xF8, 0x1F, 0xF8, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x00, 0x00, 0x00, 0x00,
00393     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00394     0x00, 0x00, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00395     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00396     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0x80, 0x1F, 0x80,
00397     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00398     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x18,
00399     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00400     0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00,
00401     0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00,
00402     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00403     0x07, 0xE0, 0x07, 0xE0, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18,
00404     0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x07, 0xE0, 0x07, 0xE0,
00405     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00406     0x01, 0x80, 0x01, 0x80, 0x07, 0x80, 0x07, 0x80, 0x19, 0x80, 0x19, 0x80, 0x01, 0x80, 0x01, 0x80,
00407     0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80,
00408     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00409     0x07, 0xE0, 0x07, 0xE0, 0x18, 0x18, 0x18, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18,
00410     0x00, 0x60, 0x00, 0x60, 0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00, 0x1F, 0xF8, 0x1F, 0xF8,
00411     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00412     0x07, 0xE0, 0x07, 0xE0, 0x18, 0x18, 0x18, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x07, 0xE0,
00413     0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x07, 0xE0, 0x07, 0xE0,
00414     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00415     0x00, 0x60, 0x00, 0x60, 0x01, 0xE0, 0x01, 0xE0, 0x06, 0x60, 0x06, 0x60, 0x06, 0x60, 0x06, 0x60,
00416     0x18, 0x60, 0x18, 0x60, 0x1F, 0xF8, 0x1F, 0xF8, 0x00, 0x60, 0x00, 0x60, 0x00, 0x60, 0x00, 0x60,
00417     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00418     0x07, 0xF8, 0x07, 0xF8, 0x06, 0x00, 0x06, 0x00, 0x18, 0x00, 0x18, 0x00, 0x1F, 0xE0, 0x1F, 0xE0,
00419     0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x07, 0xE0, 0x07, 0xE0,
00420     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00421     0x07, 0xE0, 0x07, 0xE0, 0x18, 0x18, 0x18, 0x18, 0x00, 0x18, 0x00, 0x1F, 0xE0, 0x1F, 0xE0,
00422     0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x07, 0xE0, 0x07, 0xE0,
00423     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00424     0x1F, 0xF8, 0x1F, 0xF8, 0x00, 0x60, 0x00, 0x60, 0x00, 0x60, 0x00, 0x60, 0x01, 0x80, 0x01, 0x80,
00425     0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00,
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00600    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00601    0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x19, 0xE0, 0x19, 0xE0, 0x1E, 0x18, 0x1E, 0x18,
00602    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18,
00603    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x18, 0x00, 0x00, 0x18, 0x18, 0x18, 0x18,
00604    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00605    0x06, 0x00, 0x06, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00,
00606    0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00,
00607    0x06, 0x00, 0x06, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00608    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00,
00609    0x18, 0x60, 0x18, 0x60, 0x19, 0x80, 0x19, 0x80, 0x1E, 0x00, 0x1E, 0x00, 0x19, 0x80, 0x19, 0x80,
00610    0x19, 0x80, 0x19, 0x80, 0x18, 0x60, 0x18, 0x60, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00611    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18,
00612    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00613    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00614    0x00, 0x00, 0x00, 0x00, 0x19, 0xFE, 0x00, 0x19, 0xFE, 0x00, 0x1E, 0x61, 0x80, 0x1E, 0x61, 0x80,
00615    0x18, 0x61, 0x80, 0x18, 0x61, 0x80, 0x18, 0x61, 0x80, 0x18, 0x61, 0x80, 0x18, 0x61, 0x80, 0x18,
00616    0x61, 0x80, 0x18, 0x61, 0x80, 0x18, 0x61, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00617    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00618    0x1F, 0xE0, 0x1F, 0xE0, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18,
00619    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00620    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00621    0x07, 0xE0, 0x07, 0xE0, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18,
00622    0x18, 0x18, 0x18, 0x18, 0x07, 0xE0, 0x07, 0xE0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00623    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x19, 0xE0, 0x19, 0xE0, 0x18, 0x1E, 0x18,
00624    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x1E, 0x18, 0x1E, 0x18, 0x19, 0xE0, 0x19, 0xE0,
00625    0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00626    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x07, 0x98, 0x07, 0x98, 0x18, 0x78, 0x18, 0x78,
00627    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x78, 0x18, 0x78, 0x07, 0x98, 0x07, 0x98,
00628    0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00629    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00630    0x19, 0x80, 0x19, 0x80, 0x1E, 0x00, 0x1E, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00,
00631    0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00632    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00633    0x07, 0xE0, 0x07, 0xE0, 0x18, 0x18, 0x18, 0x18, 0x07, 0x80, 0x07, 0x80, 0x00, 0x60, 0x00, 0x60,
00634    0x18, 0x18, 0x18, 0x18, 0x07, 0xE0, 0x07, 0xE0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00635    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00,
00636    0x1F, 0x80, 0x1F, 0x80, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00,
00637    0x06, 0x00, 0x06, 0x00, 0x07, 0x80, 0x07, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00638    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00639    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18,
00640    0x18, 0x78, 0x18, 0x78, 0x07, 0x98, 0x07, 0x98, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00641    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00642    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x06, 0x60, 0x06, 0x60, 0x06, 0x60, 0x06, 0x60,
00643    0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00644    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00645    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x30, 0x30,
00646    0x30, 0x30, 0x30, 0xCC, 0x30, 0x30, 0xCC, 0x30, 0x0C, 0xCC, 0x0C, 0x0C, 0xCC, 0x0C, 0x0C, 0xCC,
00647    0xC0, 0x0C, 0xCC, 0xC0, 0x03, 0x03, 0xC0, 0x03, 0x03, 0xC0, 0x03, 0x03, 0xC0, 0x03, 0x03, 0xC0,
00648    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00649    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x30, 0x30, 0x0C, 0x0C, 0x0C, 0x0C,
00650    0x03, 0x00, 0x03, 0x00, 0x03, 0x00, 0x03, 0x00, 0x0C, 0x0C, 0x0C, 0x0C, 0x30, 0x30, 0x30, 0x30,
00651    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00652    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x06, 0x60, 0x06, 0x60, 0x06, 0x60, 0x06, 0x60, 0x06,
00653    0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00,
00654    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00655    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0xF8, 0x1F, 0xF8, 0x00, 0x60, 0x00, 0x60,
00656    0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00, 0x1F, 0xF8, 0x1F, 0xF8,
00657    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00,
00658    0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x18, 0x00, 0x18, 0x00, 0x06, 0x00, 0x06, 0x00,
00659    0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x01, 0x80, 0x01, 0x80,
00660    0x00, 0x00, 0x00, 0x00, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18,
00661    0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00662    0x18, 0x00, 0x18, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00,
00663    0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00, 0x06, 0x00,
00664    0x06, 0x00, 0x06, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00665    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00666    0x00, 0x00, 0x00, 0x00, 0x1F, 0x98, 0x1F, 0x98, 0x19, 0xE0, 0x19, 0xE0, 0x00, 0x00, 0x00, 0x00,
00667    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
00668 };
00669
00670 // Font 3: default
00671 // Characters: 95, Data size: 1178 bytes
00672
00673 const uint16_t default_index[95][4] = {
00674     {32, 4, 2, 0}, // SPACE
00675     {33, 5, 10, 2}, // '!'
00676     {34, 5, 10, 12}, // '"'
00677     {35, 8, 10, 22}, // '#'
00678     {36, 9, 12, 32}, // '$'
00679     {37, 9, 10, 56}, // '%'
00680     {38, 9, 10, 76}, // '&'
00681     {39, 3, 10, 96}, // "'"
00682     {40, 6, 12, 106}, // '('
00683     {41, 6, 12, 118}, // ')'
00684     {42, 9, 7, 130}, // '*'
00685     {43, 9, 8, 144}, // '+'
00686     {44, 5, 5, 160}, // ','

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00687     {45, 5, 6, 165},    // '-'
00688     {46, 4, 4, 171},    // '.'
00689     {47, 7, 11, 175},   // '/'
00690     {48, 8, 10, 186},   // '0'
00691     {49, 8, 10, 196},   // '1'
00692     {50, 8, 10, 206},   // '2'
00693     {51, 8, 10, 216},   // '3'
00694     {52, 8, 10, 226},   // '4'
00695     {53, 8, 10, 236},   // '5'
00696     {54, 8, 10, 246},   // '6'
00697     {55, 8, 10, 256},   // '7'
00698     {56, 8, 10, 266},   // '8'
00699     {57, 8, 10, 276},   // '9'
00700     {58, 4, 8, 286},    // ':'
00701     {59, 5, 9, 294},    // ';'
00702     {60, 8, 8, 303},    // '<'
00703     {61, 8, 7, 311},    // '='
00704     {62, 8, 8, 318},    // '>'
00705     {63, 6, 10, 326},   // '?'
00706     {64, 12, 11, 336},  // '@'
00707     {65, 9, 10, 358},    // 'A'
00708     {66, 8, 10, 378},    // 'B'
00709     {67, 9, 10, 388},    // 'C'
00710     {68, 9, 10, 408},    // 'D'
00711     {69, 8, 10, 428},    // 'E'
00712     {70, 8, 10, 438},    // 'F'
00713     {71, 9, 10, 448},    // 'G'
00714     {72, 10, 10, 468},   // 'H'
00715     {73, 5, 10, 488},    // 'I'
00716     {74, 8, 10, 498},    // 'J'
00717     {75, 9, 10, 508},    // 'K'
00718     {76, 8, 10, 528},    // 'L'
00719     {77, 11, 10, 538},   // 'M'
00720     {78, 10, 10, 558},   // 'N'
00721     {79, 9, 10, 578},    // 'O'
00722     {80, 8, 10, 598},    // 'P'
00723     {81, 9, 11, 608},    // 'Q'
00724     {82, 9, 10, 630},    // 'R'
00725     {83, 8, 10, 650},    // 'S'
00726     {84, 9, 10, 660},    // 'T'
00727     {85, 9, 10, 680},    // 'U'
00728     {86, 9, 10, 700},    // 'V'
00729     {87, 12, 10, 720},   // 'W'
00730     {88, 9, 10, 740},    // 'X'
00731     {89, 9, 10, 760},    // 'Y'
00732     {90, 9, 10, 780},    // 'Z'
00733     {91, 6, 12, 800},    // '['
00734     {92, 7, 11, 812},    // '\'
00735     {93, 6, 12, 823},    // ']'
00736     {94, 8, 9, 835},     // '^'
00737     {95, 7, 3, 844},     // '_'
00738     {96, 5, 9, 847},     // '`'
00739     {97, 7, 8, 856},     // 'a'
00740     {98, 8, 10, 864},     // 'b'
00741     {99, 7, 8, 874},     // 'c'
00742     {100, 8, 10, 882},    // 'd'
00743     {101, 8, 8, 892},     // 'e'
00744     {102, 6, 11, 900},    // 'f'
00745     {103, 8, 10, 911},    // 'g'
00746     {104, 9, 10, 921},    // 'h'
00747     {105, 5, 10, 941},    // 'i'
00748     {106, 5, 12, 951},    // 'j'
00749     {107, 8, 10, 963},    // 'k'
00750     {108, 5, 10, 973},    // 'l'
00751     {109, 11, 8, 983},    // 'm'
00752     {110, 9, 8, 999},     // 'n'
00753     {111, 7, 8, 1015},    // 'o'
00754     {112, 8, 10, 1023},   // 'p'
00755     {113, 8, 10, 1033},   // 'q'
00756     {114, 6, 8, 1043},    // 'r'
00757     {115, 7, 8, 1051},    // 's'
00758     {116, 5, 10, 1059},   // 't'
00759     {117, 9, 8, 1069},    // 'u'
00760     {118, 8, 8, 1085},    // 'v'
00761     {119, 10, 8, 1093},   // 'w'
00762     {120, 8, 8, 1109},    // 'x'
00763     {121, 8, 10, 1117},   // 'y'
00764     {122, 8, 8, 1127},    // 'z'
00765     {123, 5, 12, 1135},    // '{'
00766     {124, 5, 13, 1147},    // '|'
00767     {125, 5, 12, 1160},    // '}'
00768     {126, 8, 6, 1172},    // '~'
00769 };
00770
00771 const uint8_t default_data[1178] = {
00772     0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x20, 0x00, 0x00, 0x20, 0x00, 0x00, 0x30, 0x30, 0x30,
00773     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0x18, 0x18, 0x3C, 0x28, 0x3C, 0x28, 0x30, 0x00,

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00774    0x00, 0x00, 0x08, 0x00, 0x1C, 0x00, 0x2A, 0x00, 0x2A, 0x00, 0x38, 0x00, 0x0C, 0x00, 0x0A, 0x00,
00775    0x2A, 0x00, 0x1C, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x39, 0x00, 0x2A, 0x00, 0x2A, 0x00,
00776    0x3C, 0x00, 0x07, 0x80, 0x0A, 0x80, 0x12, 0x80, 0x13, 0x80, 0x00, 0x00, 0x00, 0x1C, 0x00,
00777    0x20, 0x00, 0x22, 0x00, 0x1F, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x1E, 0x00, 0x00, 0x00,
00778    0x00, 0x20, 0x20, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x20, 0x20, 0x20,
00779    0x20, 0x20, 0x20, 0x10, 0x10, 0x00, 0x00, 0x00, 0x40, 0x20, 0x20, 0x20, 0x20, 0x20, 0x40,
00780    0x40, 0x00, 0x00, 0x00, 0x08, 0x00, 0x2A, 0x00, 0x1C, 0x00, 0x14, 0x00, 0x00, 0x00, 0x00, 0x00,
00781    0x00, 0x00, 0x08, 0x00, 0x08, 0x00, 0x3E, 0x00, 0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00,
00782    0x00, 0x7C, 0x04, 0x08, 0x00, 0x00, 0x00, 0x60, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x00,
00783    0x10, 0x10, 0x20, 0x20, 0x20, 0x40, 0x40, 0x40, 0x40, 0x00, 0x00, 0x1C, 0x36, 0x22, 0x22, 0x22,
00784    0x22, 0x36, 0x1C, 0x00, 0x00, 0x18, 0x28, 0x08, 0x08, 0x08, 0x08, 0x08, 0x08, 0x00, 0x00, 0x18,
00785    0x24, 0x04, 0x04, 0x08, 0x10, 0x20, 0x7C, 0x00, 0x00, 0x38, 0x44, 0x04, 0x18, 0x04, 0x44, 0x44,
00786    0x38, 0x00, 0x00, 0x04, 0x0C, 0x14, 0x14, 0x24, 0x7E, 0x04, 0x04, 0x00, 0x00, 0x3C, 0x40, 0x40,
00787    0x58, 0x64, 0x04, 0x44, 0x38, 0x00, 0x00, 0x1C, 0x12, 0x22, 0x3C, 0x22, 0x22, 0x22, 0x1C, 0x00,
00788    0x00, 0x7C, 0x04, 0x08, 0x08, 0x10, 0x10, 0x10, 0x20, 0x20, 0x00, 0x00, 0x1C, 0x22, 0x22, 0x1C,
00789    0x22, 0x22, 0x1C, 0x00, 0x00, 0x1C, 0x22, 0x22, 0x22, 0x1E, 0x22, 0x24, 0x1C, 0x00, 0x00, 0x20,
00790    0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x00, 0x10, 0x00, 0x00, 0x00, 0x10, 0x20, 0x00, 0x00,
00791    0x00, 0x0C, 0x30, 0x20, 0x18, 0x04, 0x00, 0x00, 0x3C, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00,
00792    0x30, 0x0C, 0x04, 0x18, 0x20, 0x00, 0x00, 0x18, 0x24, 0x24, 0x04, 0x08, 0x08, 0x00, 0x08, 0x00,
00793    0x00, 0x00, 0x07, 0x00, 0x18, 0x80, 0x17, 0x40, 0x29, 0x40, 0x29, 0x40, 0x2A, 0x40, 0x2D, 0x80,
00794    0x10, 0x00, 0x0F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, 0x18, 0x00, 0x14, 0x00, 0x24, 0x00,
00795    0x3C, 0x00, 0x22, 0x00, 0x22, 0x00, 0x42, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x22, 0x22, 0x24, 0x3E,
00796    0x22, 0x22, 0x3C, 0x00, 0x00, 0x00, 0x0E, 0x00, 0x11, 0x00, 0x21, 0x00, 0x20, 0x00, 0x20, 0x00,
00797    0x21, 0x00, 0x11, 0x00, 0x1E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x22, 0x00, 0x21, 0x00,
00798    0x21, 0x00, 0x21, 0x00, 0x21, 0x00, 0x22, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x20, 0x20,
00799    0x20, 0x3C, 0x20, 0x20, 0x3E, 0x00, 0x00, 0x3E, 0x20, 0x20, 0x20, 0x3C, 0x20, 0x20, 0x20, 0x00,
00800    0x00, 0x00, 0x0E, 0x00, 0x13, 0x00, 0x21, 0x00, 0x00, 0x20, 0x00, 0x27, 0x00, 0x21, 0x00, 0x13, 0x00,
00801    0x1D, 0x00, 0x00, 0x00, 0x00, 0x00, 0x21, 0x00, 0x21, 0x00, 0x21, 0x00, 0x21, 0x00, 0x21, 0x00, 0x3F, 0x00,
00802    0x21, 0x00, 0x21, 0x00, 0x21, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20,
00803    0x20, 0x00, 0x00, 0x04, 0x04, 0x04, 0x04, 0x04, 0x24, 0x18, 0x00, 0x00, 0x00, 0x22, 0x00,
00804    0x24, 0x00, 0x28, 0x00, 0x28, 0x00, 0x38, 0x00, 0x28, 0x00, 0x24, 0x00, 0x22, 0x00, 0x00, 0x00,
00805    0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x3E, 0x00, 0x00, 0x31, 0x80, 0x31, 0x80,
00806    0x31, 0x80, 0x2A, 0x80, 0x2A, 0x80, 0x2A, 0x80, 0x2C, 0x80, 0x24, 0x80, 0x00, 0x00, 0x00,
00807    0x32, 0x00, 0x32, 0x00, 0x32, 0x00, 0x2A, 0x00, 0x2A, 0x00, 0x2A, 0x00, 0x2A, 0x00, 0x26, 0x00, 0x26, 0x00,
00808    0x00, 0x00, 0x00, 0x00, 0x0E, 0x00, 0x11, 0x00, 0x20, 0x80, 0x20, 0x80, 0x20, 0x80, 0x20, 0x80,
00809    0x11, 0x00, 0x0E, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x22, 0x22, 0x3C, 0x20, 0x20, 0x20, 0x20, 0x00,
00810    0x00, 0x00, 0x0E, 0x00, 0x11, 0x00, 0x20, 0x80, 0x20, 0x80, 0x20, 0x80, 0x20, 0x80, 0x11, 0x00,
00811    0x0F, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00,
00812    0x3C, 0x00, 0x26, 0x00, 0x22, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x22, 0x20, 0x10, 0x0E,
00813    0x02, 0x22, 0x1C, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00,
00814    0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00,
00815    0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x42, 0x00,
00816    0x22, 0x00, 0x22, 0x00, 0x24, 0x00, 0x14, 0x00, 0x14, 0x00, 0x18, 0x00, 0x08, 0x00, 0x00, 0x00,
00817    0x00, 0x00, 0x46, 0x40, 0x26, 0x40, 0x26, 0x40, 0x2A, 0x40, 0x2A, 0x80, 0x29, 0x80, 0x19, 0x80,
00818    0x11, 0x80, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x24, 0x00, 0x14, 0x00, 0x18, 0x00, 0x18, 0x00,
00819    0x14, 0x00, 0x24, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x22, 0x00, 0x14, 0x00,
00820    0x14, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00,
00821    0x02, 0x00, 0x04, 0x00, 0x08, 0x00, 0x08, 0x00, 0x10, 0x00, 0x20, 0x00, 0x3E, 0x00, 0x00, 0x00,
00822    0x00, 0x30, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x30, 0x00, 0x00, 0x40, 0x40, 0x40,
00823    0x20, 0x20, 0x20, 0x20, 0x10, 0x10, 0x00, 0x00, 0x60, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20,
00824    0x20, 0x60, 0x00, 0x00, 0x00, 0x18, 0x28, 0x28, 0x24, 0x00, 0x00, 0x00, 0x00, 0x7C, 0x00, 0x00,
00825    0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x24, 0x0C, 0x34, 0x24, 0x3C, 0x00,
00826    0x00, 0x20, 0x20, 0x3C, 0x22, 0x22, 0x22, 0x22, 0x3C, 0x00, 0x00, 0x1C, 0x22, 0x20, 0x20, 0x22,
00827    0x1C, 0x00, 0x00, 0x02, 0x02, 0x1E, 0x22, 0x22, 0x22, 0x22, 0x1E, 0x00, 0x00, 0x1C, 0x22, 0x3E,
00828    0x20, 0x22, 0x1C, 0x00, 0x00, 0x10, 0x20, 0x20, 0x70, 0x20, 0x20, 0x20, 0x20, 0x20, 0x00, 0x00,
00829    0x1E, 0x22, 0x22, 0x22, 0x22, 0x1E, 0x22, 0x1C, 0x00, 0x00, 0x00, 0x20, 0x00, 0x20, 0x00, 0x3C,
00830    0x00, 0x32, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x20, 0x00,
00831    0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x00, 0x00, 0x20, 0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20,
00832    0x20, 0x60, 0x00, 0x00, 0x20, 0x20, 0x24, 0x28, 0x30, 0x28, 0x28, 0x24, 0x00, 0x00, 0x20, 0x20,
00833    0x20, 0x20, 0x20, 0x20, 0x20, 0x30, 0x00, 0x00, 0x00, 0x3B, 0x80, 0x24, 0x80, 0x24, 0x80, 0x24,
00834    0x80, 0x24, 0x80, 0x24, 0x80, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x32, 0x00, 0x22, 0x00, 0x22,
00835    0x00, 0x22, 0x00, 0x22, 0x00, 0x00, 0x1C, 0x22, 0x22, 0x22, 0x1C, 0x00, 0x00, 0x00,
00836    0x3C, 0x22, 0x22, 0x22, 0x22, 0x3C, 0x20, 0x20, 0x00, 0x00, 0x1E, 0x22, 0x22, 0x22, 0x1E,
00837    0x02, 0x02, 0x00, 0x00, 0x38, 0x20, 0x20, 0x20, 0x20, 0x20, 0x00, 0x00, 0x1C, 0x12, 0x18, 0x06,
00838    0x12, 0x1E, 0x00, 0x00, 0x20, 0x20, 0x70, 0x20, 0x20, 0x20, 0x30, 0x00, 0x00, 0x00, 0x00, 0x22,
00839    0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x26, 0x00, 0x1E, 0x00, 0x00, 0x00, 0x44, 0x44,
00840    0x28, 0x28, 0x28, 0x10, 0x00, 0x00, 0x00, 0x4C, 0x80, 0x4D, 0x00, 0x2D, 0x00, 0x35, 0x00, 0x33,
00841    0x00, 0x12, 0x00, 0x00, 0x00, 0x00, 0x48, 0x28, 0x10, 0x30, 0x28, 0x48, 0x00, 0x00, 0x44, 0x44,
00842    0x28, 0x28, 0x28, 0x10, 0x10, 0x20, 0x00, 0x00, 0x3C, 0x04, 0x08, 0x10, 0x20, 0x3C, 0x00, 0x00,
00843    0x30, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x30, 0x00, 0x00, 0x20, 0x20, 0x20, 0x20,
00844    0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x00, 0x00, 0x60, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20,
00845    0x20, 0x20, 0x60, 0x00, 0x00, 0x34, 0x2C, 0x00, 0x00, 0x00
00846 };
00847
00848 // Font 4: consolas
00849 // Characters: 95, Data size: 1512 bytes
00850
00851 const uint16_t consolas_index[95][4] = {
00852     {32, 8, 12, 0}, // SPACE
00853     {33, 8, 12, 12}, // '!'
00854     {34, 8, 12, 24}, // '"'
00855     {35, 9, 12, 36}, // '#'
00856     {36, 8, 12, 60}, // '$'
00857     {37, 9, 12, 72}, // '%'
00858     {38, 9, 12, 96}, // '&'
00859     {39, 8, 12, 120}, // "'"
00860     {40, 8, 12, 132}, // '('

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00861     {41, 8, 12, 144}, // ')'
00862     {42, 8, 12, 156}, // '*'
00863     {43, 9, 12, 168}, // '+'
00864     {44, 8, 12, 192}, // ','
00865     {45, 8, 12, 204}, // '-'
00866     {46, 8, 12, 216}, // '.'
00867     {47, 8, 12, 228}, // '/'
00868     {48, 9, 12, 240}, // '0'
00869     {49, 8, 12, 264}, // '1'
00870     {50, 8, 12, 276}, // '2'
00871     {51, 8, 12, 288}, // '3'
00872     {52, 9, 12, 300}, // '4'
00873     {53, 8, 12, 324}, // '5'
00874     {54, 8, 12, 336}, // '6'
00875     {55, 8, 12, 348}, // '7'
00876     {56, 8, 12, 360}, // '8'
00877     {57, 8, 12, 372}, // '9'
00878     {58, 8, 12, 384}, // ':'
00879     {59, 8, 12, 396}, // ';'
00880     {60, 8, 12, 408}, // '<'
00881     {61, 8, 12, 420}, // '='
00882     {62, 8, 12, 432}, // '>'
00883     {63, 8, 12, 444}, // '?'
00884     {64, 9, 12, 456}, // '@'
00885     {65, 9, 12, 480}, // 'A'
00886     {66, 8, 12, 504}, // 'B'
00887     {67, 8, 12, 516}, // 'C'
00888     {68, 9, 12, 528}, // 'D'
00889     {69, 8, 12, 552}, // 'E'
00890     {70, 8, 12, 564}, // 'F'
00891     {71, 8, 12, 576}, // 'G'
00892     {72, 8, 12, 588}, // 'H'
00893     {73, 8, 12, 600}, // 'I'
00894     {74, 8, 12, 612}, // 'J'
00895     {75, 9, 12, 624}, // 'K'
00896     {76, 8, 12, 648}, // 'L'
00897     {77, 9, 12, 660}, // 'M'
00898     {78, 8, 12, 684}, // 'N'
00899     {79, 9, 12, 696}, // 'O'
00900     {80, 8, 12, 720}, // 'P'
00901     {81, 9, 12, 732}, // 'Q'
00902     {82, 9, 12, 756}, // 'R'
00903     {83, 8, 12, 780}, // 'S'
00904     {84, 9, 12, 792}, // 'T'
00905     {85, 8, 12, 816}, // 'U'
00906     {86, 9, 12, 828}, // 'V'
00907     {87, 9, 12, 852}, // 'W'
00908     {88, 9, 12, 876}, // 'X'
00909     {89, 9, 12, 900}, // 'Y'
00910     {90, 8, 12, 924}, // 'Z'
00911     {91, 8, 12, 936}, // '['
00912     {92, 8, 12, 948}, // '\'
00913     {93, 8, 12, 960}, // ']'
00914     {94, 8, 12, 972}, // '^'
00915     {95, 9, 12, 984}, // '_'
00916     {96, 8, 12, 1008}, // '`'
00917     {97, 8, 12, 1020}, // 'a'
00918     {98, 8, 12, 1032}, // 'b'
00919     {99, 8, 12, 1044}, // 'c'
00920     {100, 8, 12, 1056}, // 'd'
00921     {101, 8, 12, 1068}, // 'e'
00922     {102, 9, 12, 1080}, // 'f'
00923     {103, 9, 12, 1104}, // 'g'
00924     {104, 8, 12, 1128}, // 'h'
00925     {105, 8, 12, 1140}, // 'i'
00926     {106, 8, 12, 1152}, // 'j'
00927     {107, 9, 12, 1164}, // 'k'
00928     {108, 8, 12, 1188}, // 'l'
00929     {109, 9, 12, 1200}, // 'm'
00930     {110, 8, 12, 1224}, // 'n'
00931     {111, 9, 12, 1236}, // 'o'
00932     {112, 8, 12, 1260}, // 'p'
00933     {113, 8, 12, 1272}, // 'q'
00934     {114, 9, 12, 1284}, // 'r'
00935     {115, 8, 12, 1308}, // 's'
00936     {116, 8, 12, 1320}, // 't'
00937     {117, 8, 12, 1332}, // 'u'
00938     {118, 9, 12, 1344}, // 'v'
00939     {119, 9, 12, 1368}, // 'w'
00940     {120, 9, 12, 1392}, // 'x'
00941     {121, 9, 12, 1416}, // 'y'
00942     {122, 8, 12, 1440}, // 'z'
00943     {123, 8, 12, 1452}, // '{'
00944     {124, 8, 12, 1464}, // '|'
00945     {125, 8, 12, 1476}, // '}'
00946     {126, 9, 12, 1488}, // '~'
00947 };

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00948
00949 const uint8_t consolas_data[1512] = {
00950     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00951     0x00, 0x00, 0x08, 0x08, 0x08, 0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0x14,
00952     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00953     0x00, 0x00, 0x08, 0x00, 0x3C, 0x00, 0x08, 0x00, 0x3C, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00954     0x00, 0x08, 0x1C, 0x28, 0x18, 0x14, 0x3C, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00955     0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x3C, 0x00, 0x08, 0x00, 0x10, 0x00, 0x1E, 0x00, 0x2E, 0x00, 0x00,
00956     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x38, 0x00, 0x28, 0x00, 0x00,
00957     0x30, 0x00, 0x34, 0x00, 0x28, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x08,
00958     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x08, 0x10, 0x10, 0x10, 0x10, 0x10, 0x08, 0x04,
00959     0x00, 0x00, 0x00, 0x00, 0x10, 0x08, 0x04, 0x04, 0x04, 0x04, 0x08, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00,
00960     0x00, 0x00, 0x08, 0x08, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00961     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, 0x08, 0x00, 0x3E, 0x00, 0x08, 0x00, 0x08, 0x00, 0x00,
00962     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x18, 0x00, 0x00, 0x00, 0x00,
00963     0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00964     0x00, 0x00, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x08, 0x08, 0x10, 0x10, 0x20, 0x20, 0x00,
00965     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x00,
00966     0x2C, 0x00, 0x3C, 0x00, 0x34, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18,
00967     0x08, 0x08, 0x08, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x14, 0x04, 0x08, 0x1C, 0x00,
00968     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x04, 0x0C, 0x04, 0x1C, 0x00, 0x00, 0x00, 0x00,
00969     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x18, 0x00, 0x28, 0x00, 0x00,
00970     0x3C, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x10, 0x1C, 0x04, 0x18,
00971     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x20, 0x3C, 0x24, 0x18, 0x00, 0x00, 0x00, 0x00,
00972     0x00, 0x00, 0x00, 0x38, 0x08, 0x10, 0x10, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C,
00973     0x24, 0x1C, 0x24, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x24, 0x3C, 0x04, 0x38,
00974     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00,
00975     0x00, 0x00, 0x00, 0x08, 0x00, 0x00, 0x08, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00976     0x04, 0x08, 0x18, 0x04, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x1C, 0x00, 0x00,
00977     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x08, 0x0C, 0x10, 0x00, 0x00, 0x00, 0x00,
00978     0x00, 0x00, 0x18, 0x04, 0x04, 0x1C, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00979     0x18, 0x00, 0x24, 0x00, 0x5C, 0x00, 0x5C, 0x00, 0x5C, 0x00, 0x54, 0x00, 0x40, 0x00, 0x38, 0x00, 0x00,
00980     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, 0x00,
00981     0x14, 0x00, 0x14, 0x00, 0x1C, 0x00, 0x24, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1E,
00982     0x12, 0x1C, 0x12, 0x1E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x20, 0x20, 0x20, 0x18, 0x00,
00983     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x38, 0x00, 0x00,
00984     0x24, 0x00, 0x24, 0x00, 0x24, 0x00, 0x38, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C,
00985     0x10, 0x1C, 0x10, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x10, 0x1C, 0x10, 0x10,
00986     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x20, 0x2C, 0x24, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00,
00987     0x00, 0x00, 0x00, 0x24, 0x24, 0x3C, 0x24, 0x24, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00,
00988     0x08, 0x08, 0x08, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x04, 0x04, 0x04, 0x1C,
00989     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0x00, 0x00,
00990     0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x14, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10,
00991     0x10, 0x10, 0x10, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00992     0x00, 0x00, 0x18, 0x00, 0x18, 0x00, 0x34, 0x00, 0x24, 0x00, 0x24, 0x00, 0x24, 0x00, 0x00, 0x00, 0x00,
00993     0x00, 0x00, 0x00, 0x24, 0x34, 0x34, 0x2C, 0x24, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00994     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x24, 0x00, 0x24, 0x00, 0x24, 0x00, 0x00, 0x18, 0x00,
00995     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1E, 0x12, 0x1C, 0x10, 0x10, 0x00, 0x00, 0x00, 0x00,
00996     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x24, 0x00, 0x24, 0x00, 0x00, 0x24, 0x00,
00997     0x18, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00998     0x00, 0x00, 0x1C, 0x00, 0x14, 0x00, 0x18, 0x00, 0x14, 0x00, 0x14, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
00999     0x00, 0x00, 0x00, 0x1E, 0x10, 0x0C, 0x02, 0x1E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01000     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00,
01001     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x24, 0x24, 0x38, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01002     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0x00, 0x14, 0x00, 0x14, 0x00,
01003     0x14, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01004     0x00, 0x00, 0x24, 0x00, 0x24, 0x00, 0x34, 0x00, 0x3C, 0x00, 0x00, 0x24, 0x00, 0x00, 0x00, 0x00, 0x00,
01005     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x24, 0x00, 0x18, 0x00, 0x10, 0x00,
01006     0x18, 0x00, 0x24, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01007     0x00, 0x00, 0x22, 0x00, 0x14, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00,
01008     0x00, 0x00, 0x00, 0x38, 0x08, 0x10, 0x20, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x18, 0x10, 0x10, 0x10, 0x10,
01009     0x10, 0x10, 0x10, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x10, 0x08, 0x08, 0x04, 0x04, 0x02, 0x00,
01010     0x00, 0x00, 0x00, 0x00, 0x18, 0x08, 0x08, 0x08, 0x08, 0x08, 0x08, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00,
01011     0x00, 0x00, 0x00, 0x10, 0x28, 0x28, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01012     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00,
01013     0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01014     0x00, 0x00, 0x00, 0x00, 0x1E, 0x1E, 0x12, 0x1E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x10,
01015     0x1E, 0x12, 0x12, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0C, 0x10, 0x10, 0x1C,
01016     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x04, 0x1C, 0x24, 0x24, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01017     0x00, 0x00, 0x00, 0x00, 0x1C, 0x3C, 0x20, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01018     0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x10, 0x00, 0x38, 0x00, 0x00, 0x10, 0x00, 0x10, 0x00, 0x10, 0x00,
01019     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x24, 0x00, 0x00,
01020     0x3C, 0x00, 0x3C, 0x00, 0x24, 0x00, 0x38, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x10,
01021     0x1C, 0x14, 0x14, 0x14, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, 0x18, 0x08, 0x08, 0x1C,
01022     0x00, 0x00, 0x00, 0x00, 0x04, 0x00, 0x1C, 0x04, 0x04, 0x04, 0x04, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00,
01023     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x00, 0x10, 0x00, 0x14, 0x00, 0x18, 0x00, 0x00,
01024     0x14, 0x00, 0x12, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x08, 0x08, 0x08, 0x08, 0x1C,
01025     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01026     0x3E, 0x00, 0x2A, 0x00, 0x2A, 0x00, 0x2A, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01027     0x1C, 0x14, 0x14, 0x14, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01028     0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x24, 0x00, 0x24, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01029     0x00, 0x00, 0x1C, 0x14, 0x14, 0x1C, 0x10, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x24,
01030     0x24, 0x3C, 0x04, 0x04, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01031     0x00, 0x00, 0x00, 0x00, 0x1E, 0x00, 0x12, 0x00, 0x10, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01032     0x00, 0x00, 0x00, 0x00, 0x1C, 0x10, 0x0C, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10,
01033     0x3C, 0x10, 0x10, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0x14, 0x14, 0x1C, 0x00,
01034     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0x00,

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01035     0x14, 0x00, 0x14, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01036     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x44, 0x00, 0x58, 0x00, 0x38, 0x00, 0x28, 0x00,
01037     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01038     0x24, 0x00, 0x18, 0x00, 0x18, 0x00, 0x24, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01039     0x00, 0x00, 0x00, 0x00, 0x14, 0x00, 0x14, 0x00, 0x14, 0x00, 0x08, 0x00, 0x08, 0x00, 0x30, 0x00,
01040     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x08, 0x08, 0x1C, 0x00, 0x00, 0x00,
01041     0x0C, 0x08, 0x08, 0x10, 0x08, 0x08, 0x08, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x08, 0x08, 0x08, 0x08,
01042     0x08, 0x08, 0x08, 0x08, 0x00, 0x00, 0x00, 0x00, 0x18, 0x08, 0x08, 0x04, 0x08, 0x08, 0x08, 0x18,
01043     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01044     0x00, 0x00, 0x68, 0x00, 0x58, 0x00, 0x00, 0x00
01045 };
01046
01047 // Font 5: consolas
01048 // Characters: 95, Data size: 3800 bytes
01049
01050 const uint16_t consolas_2_index[95][4] = {
01051     {32, 13, 20, 0}, // SPACE
01052     {33, 13, 20, 40}, // '!'
01053     {34, 13, 20, 80}, // '"'
01054     {35, 13, 20, 120}, // '#'
01055     {36, 13, 20, 160}, // '$'
01056     {37, 13, 20, 200}, // '%'
01057     {38, 13, 20, 240}, // '&'
01058     {39, 13, 20, 280}, // "'"
01059     {40, 13, 20, 320}, // '('
01060     {41, 13, 20, 360}, // ')'
01061     {42, 13, 20, 400}, // '*'
01062     {43, 13, 20, 440}, // '+'
01063     {44, 13, 20, 480}, // ','
01064     {45, 13, 20, 520}, // '-'
01065     {46, 13, 20, 560}, // '.'
01066     {47, 13, 20, 600}, // '/'
01067     {48, 13, 20, 640}, // '0'
01068     {49, 13, 20, 680}, // '1'
01069     {50, 13, 20, 720}, // '2'
01070     {51, 13, 20, 760}, // '3'
01071     {52, 13, 20, 800}, // '4'
01072     {53, 13, 20, 840}, // '5'
01073     {54, 13, 20, 880}, // '6'
01074     {55, 13, 20, 920}, // '7'
01075     {56, 13, 20, 960}, // '8'
01076     {57, 13, 20, 1000}, // '9'
01077     {58, 13, 20, 1040}, // ':'
01078     {59, 13, 20, 1080}, // ';'
01079     {60, 13, 20, 1120}, // '<'
01080     {61, 13, 20, 1160}, // '='
01081     {62, 13, 20, 1200}, // '>'
01082     {63, 13, 20, 1240}, // '?'
01083     {64, 13, 20, 1280}, // '@'
01084     {65, 13, 20, 1320}, // 'A'
01085     {66, 13, 20, 1360}, // 'B'
01086     {67, 13, 20, 1400}, // 'C'
01087     {68, 13, 20, 1440}, // 'D'
01088     {69, 13, 20, 1480}, // 'E'
01089     {70, 13, 20, 1520}, // 'F'
01090     {71, 13, 20, 1560}, // 'G'
01091     {72, 13, 20, 1600}, // 'H'
01092     {73, 13, 20, 1640}, // 'I'
01093     {74, 13, 20, 1680}, // 'J'
01094     {75, 13, 20, 1720}, // 'K'
01095     {76, 13, 20, 1760}, // 'L'
01096     {77, 13, 20, 1800}, // 'M'
01097     {78, 13, 20, 1840}, // 'N'
01098     {79, 13, 20, 1880}, // 'O'
01099     {80, 13, 20, 1920}, // 'P'
01100     {81, 13, 20, 1960}, // 'Q'
01101     {82, 13, 20, 2000}, // 'R'
01102     {83, 13, 20, 2040}, // 'S'
01103     {84, 13, 20, 2080}, // 'T'
01104     {85, 13, 20, 2120}, // 'U'
01105     {86, 13, 20, 2160}, // 'V'
01106     {87, 13, 20, 2200}, // 'W'
01107     {88, 13, 20, 2240}, // 'X'
01108     {89, 13, 20, 2280}, // 'Y'
01109     {90, 13, 20, 2320}, // 'Z'
01110     {91, 13, 20, 2360}, // '['
01111     {92, 13, 20, 2400}, // '\'
01112     {93, 13, 20, 2440}, // ']'
01113     {94, 13, 20, 2480}, // '^'
01114     {95, 13, 20, 2520}, // '_'
01115     {96, 13, 20, 2560}, // '`'
01116     {97, 13, 20, 2600}, // 'a'
01117     {98, 13, 20, 2640}, // 'b'
01118     {99, 13, 20, 2680}, // 'c'
01119     {100, 13, 20, 2720}, // 'd'
01120     {101, 13, 20, 2760}, // 'e'
01121     {102, 13, 20, 2800}, // 'f'

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01122     {103, 13, 20, 2840}, // 'g'
01123     {104, 13, 20, 2880}, // 'h'
01124     {105, 13, 20, 2920}, // 'i'
01125     {106, 13, 20, 2960}, // 'j'
01126     {107, 13, 20, 3000}, // 'k'
01127     {108, 13, 20, 3040}, // 'l'
01128     {109, 13, 20, 3080}, // 'm'
01129     {110, 13, 20, 3120}, // 'n'
01130     {111, 13, 20, 3160}, // 'o'
01131     {112, 13, 20, 3200}, // 'p'
01132     {113, 13, 20, 3240}, // 'q'
01133     {114, 13, 20, 3280}, // 'r'
01134     {115, 13, 20, 3320}, // 's'
01135     {116, 13, 20, 3360}, // 't'
01136     {117, 13, 20, 3400}, // 'u'
01137     {118, 13, 20, 3440}, // 'v'
01138     {119, 13, 20, 3480}, // 'w'
01139     {120, 13, 20, 3520}, // 'x'
01140     {121, 13, 20, 3560}, // 'y'
01141     {122, 13, 20, 3600}, // 'z'
01142     {123, 13, 20, 3640}, // '{'
01143     {124, 13, 20, 3680}, // '|'
01144     {125, 13, 20, 3720}, // '}'
01145     {126, 13, 20, 3760} // '~'
01146 };
01147
01148 const uint8_t consolass_2_data[3800] = {
01149     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01150     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01151     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01152     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00,
01153     0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x00, 0x00, 0x06, 0x00, 0x06, 0x00,
01154     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01155     0x00, 0x00, 0x0D, 0x80, 0x0D, 0x80, 0x0D, 0x80, 0x0D, 0x80, 0x0D, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00,
01156     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01157     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01158     0x08, 0x80, 0x3F, 0xC0, 0x08, 0x80, 0x11, 0x00, 0x3F, 0xC0, 0x11, 0x00, 0x11, 0x00, 0x11, 0x00,
01159     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0x00,
01160     0x0F, 0x00, 0x16, 0x00, 0x16, 0x00, 0x14, 0x00, 0x0C, 0x00, 0x07, 0x00, 0x04, 0x80, 0x04, 0x80,
01161     0x05, 0x80, 0x1F, 0x00, 0x04, 0x00, 0x04, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01162     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x40, 0x24, 0x80, 0x25, 0x80,
01163     0x25, 0x00, 0x1A, 0x00, 0x06, 0x00, 0x05, 0x80, 0x0E, 0x40, 0x0A, 0x40, 0x12, 0x40, 0x31, 0x80,
01164     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01165     0x00, 0x00, 0x0E, 0x00, 0x11, 0x00, 0x11, 0x00, 0x11, 0x00, 0x1A, 0x00, 0x0C, 0x00, 0x1E, 0x80,
01166     0x22, 0x80, 0x23, 0x80, 0x31, 0x80, 0x1E, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01167     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x03, 0x00, 0x03, 0x00, 0x03, 0x00,
01168     0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01169     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x01, 0x00, 0x03, 0x00,
01170     0x02, 0x00, 0x06, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00, 0x04, 0x00,
01171     0x02, 0x00, 0x03, 0x00, 0x01, 0x00, 0x00, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01172     0x00, 0x00, 0x08, 0x00, 0x04, 0x00, 0x06, 0x00, 0x02, 0x00, 0x03, 0x00, 0x01, 0x00, 0x01, 0x00,
01173     0x01, 0x00, 0x01, 0x00, 0x01, 0x00, 0x03, 0x00, 0x02, 0x00, 0x06, 0x00, 0x04, 0x00, 0x08, 0x00,
01174     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01175     0x00, 0x00, 0x02, 0x00, 0x12, 0x40, 0x0F, 0x80, 0x02, 0x00, 0x0F, 0x80, 0x12, 0x40, 0x02, 0x00,
01176     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01177     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01178     0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x1F, 0xC0, 0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x00, 0x00,
01179     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01180     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01181     0x07, 0x00, 0x03, 0x00, 0x06, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01182     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01183     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01184     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01185     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01186     0x00, 0x00, 0x00, 0x00, 0x07, 0x00, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01187     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x01, 0x80, 0x01, 0x00, 0x01, 0x00, 0x03, 0x00,
01188     0x02, 0x00, 0x06, 0x00, 0x04, 0x00, 0x04, 0x00, 0x0C, 0x00, 0x08, 0x00, 0x08, 0x00, 0x10, 0x00,
01189     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01190     0x00, 0x00, 0x00, 0x00, 0x07, 0x00, 0x08, 0x80, 0x10, 0x40, 0x10, 0xC0, 0x13, 0x40, 0x16, 0x40,
01191     0x18, 0x40, 0x10, 0x40, 0x08, 0x80, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01192     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x06, 0x00, 0x0A, 0x00,
01193     0x12, 0x00, 0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x1F, 0xC0,
01194     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01195     0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x11, 0x80, 0x00, 0x80, 0x00, 0x80, 0x00, 0x80, 0x01, 0x00,
01196     0x02, 0x00, 0x04, 0x00, 0x08, 0x00, 0x1F, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01197     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0xC0, 0x00, 0x00, 0x80,
01198     0x00, 0x80, 0x01, 0x80, 0x0F, 0x00, 0x01, 0x80, 0x00, 0x80, 0x00, 0x80, 0x01, 0x00, 0x1E, 0x00,
01199     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01200     0x00, 0x00, 0x00, 0x00, 0x03, 0x00, 0x07, 0x00, 0x05, 0x00, 0x0D, 0x00, 0x09, 0x00, 0x11, 0x00,
01201     0x31, 0x00, 0x3F, 0xC0, 0x01, 0x00, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01202     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0xC0, 0x00, 0x10, 0x00,
01203     0x10, 0x00, 0x10, 0x00, 0x1F, 0x00, 0x01, 0x80, 0x00, 0x80, 0x00, 0x80, 0x01, 0x00, 0x1E, 0x00,
01204     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01205     0x00, 0x00, 0x00, 0x00, 0x07, 0x80, 0x0C, 0x00, 0x08, 0x00, 0x10, 0x00, 0x17, 0x80, 0x18, 0xC0,
01206     0x10, 0x40, 0x10, 0x40, 0x08, 0xC0, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01207     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0xC0, 0x00, 0x00, 0xC0,
01208     0x00, 0x80, 0x01, 0x80, 0x01, 0x00, 0x03, 0x00, 0x02, 0x00, 0x06, 0x00, 0x04, 0x00, 0x0C, 0x00,

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Generated by Doxygen

Generated by Doxygen

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01383     0x01, 0x80, 0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x02, 0x00, 0x06, 0x00, 0x1C, 0x00,
01384     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01385     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0E, 0x20, 0x13, 0x20,
01386     0x11, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01387 };
01388
01389 // Font 6: minecraft
01390 // Characters: 95, Data size: 2268 bytes
01391
01392 const uint16_t minecraft_index[95][4] = {
01393     {32, 7, 14, 0}, // SPACE
01394     {33, 6, 14, 14}, // '!'
01395     {34, 9, 14, 28}, // '"'
01396     {35, 10, 14, 56}, // '#'
01397     {36, 9, 14, 84}, // '$'
01398     {37, 11, 14, 112}, // '%'
01399     {38, 10, 14, 140}, // '&'
01400     {39, 6, 14, 168}, // "'"
01401     {40, 8, 14, 182}, // '('
01402     {41, 8, 14, 196}, // ')'
01403     {42, 8, 14, 210}, // '*'
01404     {43, 9, 14, 224}, // '+'
01405     {44, 6, 14, 252}, // ','
01406     {45, 7, 14, 266}, // '-'
01407     {46, 6, 14, 280}, // '.'
01408     {47, 9, 14, 294}, // '/'
01409     {48, 9, 14, 322}, // '0'
01410     {49, 8, 14, 350}, // '1'
01411     {50, 9, 14, 364}, // '2'
01412     {51, 9, 14, 392}, // '3'
01413     {52, 9, 14, 420}, // '4'
01414     {53, 10, 14, 448}, // '5'
01415     {54, 9, 14, 476}, // '6'
01416     {55, 9, 14, 504}, // '7'
01417     {56, 9, 14, 532}, // '8'
01418     {57, 9, 14, 560}, // '9'
01419     {58, 6, 14, 588}, // ':'
01420     {59, 6, 14, 602}, // ';'
01421     {60, 8, 14, 616}, // '<'
01422     {61, 9, 14, 630}, // '='
01423     {62, 8, 14, 658}, // '>'
01424     {63, 9, 14, 672}, // '?'
01425     {64, 12, 14, 700}, // '@'
01426     {65, 9, 14, 728}, // 'A'
01427     {66, 10, 14, 756}, // 'B'
01428     {67, 10, 14, 784}, // 'C'
01429     {68, 10, 14, 812}, // 'D'
01430     {69, 10, 14, 840}, // 'E'
01431     {70, 9, 14, 868}, // 'F'
01432     {71, 10, 14, 896}, // 'G'
01433     {72, 10, 14, 924}, // 'H'
01434     {73, 7, 14, 952}, // 'I'
01435     {74, 8, 14, 966}, // 'J'
01436     {75, 9, 14, 980}, // 'K'
01437     {76, 9, 14, 1008}, // 'L'
01438     {77, 10, 14, 1036}, // 'M'
01439     {78, 10, 14, 1064}, // 'N'
01440     {79, 11, 14, 1092}, // 'O'
01441     {80, 10, 14, 1120}, // 'P'
01442     {81, 11, 14, 1148}, // 'Q'
01443     {82, 11, 14, 1176}, // 'R'
01444     {83, 9, 14, 1204}, // 'S'
01445     {84, 10, 14, 1232}, // 'T'
01446     {85, 10, 14, 1260}, // 'U'
01447     {86, 10, 14, 1288}, // 'V'
01448     {87, 10, 14, 1316}, // 'W'
01449     {88, 10, 14, 1344}, // 'X'
01450     {89, 10, 14, 1372}, // 'Y'
01451     {90, 10, 14, 1400}, // 'Z'
01452     {91, 7, 14, 1428}, // '['
01453     {92, 9, 14, 1442}, // '\'
01454     {93, 7, 14, 1470}, // ']'
01455     {94, 9, 14, 1484}, // '^'
01456     {95, 9, 14, 1512}, // '_'
01457     {96, 7, 14, 1540}, // '`'
01458     {97, 9, 14, 1554}, // 'a'
01459     {98, 10, 14, 1582}, // 'b'
01460     {99, 9, 14, 1610}, // 'c'
01461     {100, 9, 14, 1638}, // 'd'
01462     {101, 9, 14, 1666}, // 'e'
01463     {102, 9, 14, 1694}, // 'f'
01464     {103, 9, 14, 1722}, // 'g'
01465     {104, 9, 14, 1750}, // 'h'
01466     {105, 6, 14, 1778}, // 'i'
01467     {106, 8, 14, 1792}, // 'j'
01468     {107, 9, 14, 1806}, // 'k'
01469     {108, 6, 14, 1834}, // 'l'

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01470     {109, 12, 14, 1848}, // 'm'
01471     {110, 9, 14, 1876}, // 'n'
01472     {111, 9, 14, 1904}, // 'o'
01473     {112, 9, 14, 1932}, // 'p'
01474     {113, 9, 14, 1960}, // 'q'
01475     {114, 8, 14, 1988}, // 'r'
01476     {115, 8, 14, 2002}, // 's'
01477     {116, 7, 14, 2016}, // 't'
01478     {117, 9, 14, 2030}, // 'u'
01479     {118, 10, 14, 2058}, // 'v'
01480     {119, 10, 14, 2086}, // 'w'
01481     {120, 10, 14, 2114}, // 'x'
01482     {121, 9, 14, 2142}, // 'y'
01483     {122, 9, 14, 2170}, // 'z'
01484     {123, 7, 14, 2198}, // '{'
01485     {124, 6, 14, 2212}, // '|'
01486     {125, 7, 14, 2226}, // '}'
01487     {126, 10, 14, 2240} // '~'
01488 };
01489
01490 const uint8_t minecraft_data[2268] = {
01491     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01492     0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00,
01493     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0x00, 0x14, 0x00, 0x28, 0x00,
01494     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01495     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0x00, 0x14, 0x00, 0x3E, 0x00, 0x14, 0x00, 0x3E, 0x00,
01496     0x14, 0x00, 0x14, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01497     0x08, 0x00, 0x1C, 0x00, 0x00, 0x00, 0x20, 0x00, 0x10, 0x00, 0x08, 0x00, 0x3C, 0x00, 0x08, 0x00,
01498     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x00,
01499     0x19, 0x00, 0x1A, 0x00, 0x00, 0x00, 0x05, 0x80, 0x09, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01500     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, 0x14, 0x00, 0x10, 0x00,
01501     0x1A, 0x00, 0x24, 0x00, 0x24, 0x00, 0x1A, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20,
01502     0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x20,
01503     0x20, 0x20, 0x20, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x00, 0x08, 0x08, 0x08,
01504     0x08, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x28, 0x18, 0x28, 0x00, 0x00, 0x00, 0x00,
01505     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01506     0x00, 0x00, 0x04, 0x00, 0x1E, 0x00, 0x04, 0x00, 0x04, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01507     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01508     0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01509     0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01510     0x00, 0x00, 0x00, 0x00, 0x02, 0x00, 0x00, 0x00, 0x04, 0x00, 0x00, 0x00, 0x08, 0x00, 0x10, 0x00,
01511     0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01512     0x18, 0x00, 0x00, 0x00, 0x24, 0x00, 0x2C, 0x00, 0x34, 0x00, 0x24, 0x00, 0x18, 0x00, 0x00, 0x00,
01513     0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x30, 0x10, 0x10, 0x10, 0x10, 0x38, 0x00, 0x00, 0x00, 0x00,
01514     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x24, 0x00, 0x00, 0x00,
01515     0x08, 0x00, 0x10, 0x00, 0x20, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01516     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x00, 0x00, 0x24, 0x00, 0x08, 0x00, 0x00, 0x00,
01517     0x24, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01518     0x00, 0x00, 0x04, 0x00, 0x0C, 0x00, 0x14, 0x00, 0x14, 0x00, 0x24, 0x00, 0x3E, 0x00, 0x04, 0x00,
01519     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00,
01520     0x20, 0x00, 0x20, 0x00, 0x20, 0x00, 0x1C, 0x00, 0x22, 0x00, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00,
01521     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x10, 0x00, 0x00, 0x00,
01522     0x20, 0x00, 0x3C, 0x00, 0x22, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01523     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x24, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, 0x10, 0x00,
01524     0x10, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01525     0x00, 0x00, 0x18, 0x00, 0x00, 0x00, 0x24, 0x00, 0x18, 0x00, 0x00, 0x00, 0x24, 0x00, 0x00, 0x18, 0x00,
01526     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00,
01527     0x00, 0x00, 0x24, 0x00, 0x24, 0x00, 0x1C, 0x00, 0x04, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00,
01528     0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x00, 0x00, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01529     0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x10, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01530     0x00, 0x18, 0x20, 0x10, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01531     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x00, 0x00,
01532     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x08, 0x10, 0x20, 0x00,
01533     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00,
01534     0x00, 0x00, 0x24, 0x00, 0x08, 0x00, 0x10, 0x00, 0x00, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00,
01535     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0x00, 0x20, 0x80, 0x20, 0x80, 0x1F, 0x00, 0x00, 0x00,
01536     0x29, 0x80, 0x2F, 0x80, 0x20, 0x80, 0x1F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01537     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x00, 0x00, 0x26, 0x00, 0x3E, 0x00, 0x22, 0x00,
01538     0x22, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01539     0x00, 0x00, 0x3C, 0x00, 0x24, 0x00, 0x22, 0x00, 0x3C, 0x00, 0x24, 0x00, 0x22, 0x00, 0x3C, 0x00,
01540     0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01541     0x21, 0x00, 0x20, 0x00, 0x20, 0x00, 0x20, 0x00, 0x21, 0x00, 0x1E, 0x00, 0x00, 0x00, 0x00, 0x00,
01542     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x24, 0x00, 0x22, 0x00,
01543     0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01544     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x20, 0x00, 0x20, 0x00, 0x38, 0x00, 0x20, 0x00,
01545     0x20, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01546     0x00, 0x00, 0x3E, 0x00, 0x20, 0x00, 0x20, 0x00, 0x38, 0x00, 0x20, 0x00, 0x20, 0x00, 0x20, 0x00,
01547     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0x00,
01548     0x00, 0x00, 0x20, 0x00, 0x23, 0x00, 0x21, 0x00, 0x21, 0x00, 0x1E, 0x00, 0x00, 0x00, 0x00, 0x00,
01549     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00,
01550     0x3E, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18,
01551     0x08, 0x08, 0x08, 0x08, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x04, 0x04,
01552     0x04, 0x24, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01553     0x00, 0x00, 0x20, 0x00, 0x22, 0x00, 0x24, 0x00, 0x38, 0x00, 0x24, 0x00, 0x20, 0x00, 0x22, 0x00,
01554     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x00,
01555     0x20, 0x00, 0x20, 0x00, 0x20, 0x00, 0x20, 0x00, 0x20, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x00, 0x00,
01556     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x36, 0x00, 0x2A, 0x00,
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01557     0x2A, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01558     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x32, 0x00, 0x2A, 0x00, 0x26, 0x00, 0x22, 0x00,
01559     0x22, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01560     0x00, 0x00, 0x1E, 0x00, 0x00, 0x00, 0x21, 0x00, 0x21, 0x00, 0x21, 0x00, 0x21, 0x00, 0x1E, 0x00,
01561     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00,
01562     0x22, 0x00, 0x20, 0x00, 0x00, 0x3C, 0x00, 0x20, 0x00, 0x00, 0x20, 0x00, 0x20, 0x00, 0x00, 0x00,
01563     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1E, 0x00, 0x00, 0x00, 0x21, 0x00,
01564     0x21, 0x00, 0x21, 0x00, 0x3F, 0x00, 0x1F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01565     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x21, 0x00, 0x20, 0x00, 0x3E, 0x00, 0x00, 0x24, 0x00,
01566     0x22, 0x00, 0x21, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01567     0x00, 0x00, 0x1E, 0x00, 0x20, 0x00, 0x00, 0x00, 0x18, 0x00, 0x02, 0x00, 0x02, 0x00, 0x38, 0x00,
01568     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00,
01569     0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x00, 0x00,
01570     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x11, 0x00, 0x11, 0x00, 0x00, 0x11,
01571     0x11, 0x00, 0x11, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01572     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x14, 0x00, 0x00, 0x00,
01573     0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01574     0x00, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x2A, 0x00, 0x36, 0x00, 0x22, 0x00,
01575     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00,
01576     0x14, 0x00, 0x00, 0x00, 0x08, 0x00, 0x14, 0x00, 0x22, 0x00, 0x22, 0x00, 0x00, 0x00, 0x00, 0x00,
01577     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00, 0x00, 0x14, 0x00, 0x00,
01578     0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01579     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x02, 0x00, 0x00, 0x00, 0x00, 0x04, 0x00, 0x08,
01580     0x10, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x20, 0x20, 0x20, 0x20, 0x20,
01581     0x20, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01582     0x20, 0x00, 0x00, 0x00, 0x10, 0x00, 0x00, 0x00, 0x08, 0x00, 0x04, 0x00, 0x02, 0x00, 0x00, 0x00,
01583     0x00, 0x00, 0x00, 0x00, 0x30, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x30, 0x00, 0x00, 0x00, 0x00,
01584     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, 0x14, 0x00,
01585     0x24, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01586     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01587     0x3E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x10, 0x00, 0x00,
01588     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01589     0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x02, 0x00, 0x1E, 0x00, 0x22, 0x00, 0x1E, 0x00, 0x00, 0x00,
01590     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x20, 0x00,
01591     0x20, 0x00, 0x2C, 0x00, 0x32, 0x00, 0x22, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01592     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x22, 0x00,
01593     0x20, 0x00, 0x22, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01594     0x00, 0x00, 0x00, 0x00, 0x04, 0x00, 0x04, 0x00, 0x1C, 0x00, 0x24, 0x00, 0x24, 0x00, 0x00, 0x24,
01595     0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01596     0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x24, 0x00, 0x38, 0x00, 0x24, 0x00, 0x1C, 0x00, 0x00, 0x00,
01597     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x10, 0x00,
01598     0x3C, 0x00, 0x10, 0x00, 0x10, 0x00, 0x10, 0x00, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01599     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x24, 0x00, 0x1C, 0x00, 0x04, 0x00, 0x04, 0x00,
01600     0x24, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01601     0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x20, 0x00, 0x20, 0x00, 0x28, 0x00, 0x34, 0x00, 0x24, 0x00,
01602     0x24, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x00, 0x20, 0x20, 0x20, 0x20, 0x20,
01603     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x00, 0x04, 0x04, 0x04, 0x04, 0x24, 0x10, 0x00, 0x00,
01604     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x00, 0x24, 0x00,
01605     0x20, 0x00, 0x28, 0x00, 0x30, 0x00, 0x28, 0x00, 0x24, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01606     0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01607     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3B, 0x00, 0x24, 0x80, 0x24,
01608     0x24, 0x80, 0x24, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01609     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00, 0x22, 0x00,
01610     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01611     0x00, 0x00, 0x18, 0x00, 0x24, 0x00, 0x24, 0x00, 0x24, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00,
01612     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x28, 0x00, 0x20, 0x00, 0x32, 0x00,
01613     0x22, 0x00, 0x38, 0x00, 0x20, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01614     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x2C, 0x00, 0x24, 0x00, 0x24, 0x00, 0x1C, 0x00,
01615     0x04, 0x00, 0x04, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x38, 0x34, 0x20,
01616     0x20, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x00, 0x20, 0x10, 0x04, 0x30,
01617     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x10, 0x30, 0x10, 0x10, 0x10, 0x08, 0x00, 0x00,
01618     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01619     0x24, 0x00, 0x24, 0x00, 0x24, 0x00, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01620     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x22, 0x00,
01621     0x00, 0x00, 0x14, 0x00, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01622     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x21, 0x00, 0x25, 0x00, 0x25, 0x00,
01623     0x1F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01624     0x00, 0x00, 0x22, 0x00, 0x00, 0x00, 0x14, 0x00, 0x08, 0x00, 0x14, 0x00, 0x22, 0x00, 0x00, 0x00,
01625     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01626     0x24, 0x00, 0x1C, 0x00, 0x04, 0x00, 0x38, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01627     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x04, 0x00, 0x00, 0x00,
01628     0x08, 0x00, 0x10, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x10, 0x10, 0x10, 0x30, 0x10,
01629     0x10, 0x10, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20,
01630     0x20, 0x20, 0x00, 0x00, 0x00, 0x00, 0x10, 0x10, 0x18, 0x10, 0x10, 0x10, 0x20, 0x00,
01631     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01632     0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01633 };
01634
01635 // Font 7: minecraft
01636 // Characters: 95, Data size: 3740 bytes
01637
01638 const uint16_t minecraft_2_index[95][4] = {
01639     {32, 9, 20, 0}, // SPACE
01640     {33, 7, 20, 40}, // '!'
01641     {34, 13, 20, 60}, // '"'
01642     {35, 15, 20, 100}, // '#'
01643     {36, 13, 20, 140}, // '$'

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01644 {37, 18, 20, 180}, // '%'
01645 {38, 15, 20, 240}, // '&'
01646 {39, 7, 20, 280}, // "'"
01647 {40, 11, 20, 300}, // '('
01648 {41, 11, 20, 340}, // ')'
01649 {42, 11, 20, 380}, // '*'
01650 {43, 14, 20, 420}, // '+'
01651 {44, 7, 20, 460}, // ','
01652 {45, 10, 20, 480}, // '-'
01653 {46, 7, 20, 520}, // '.'
01654 {47, 13, 20, 540}, // '/'
01655 {48, 13, 20, 580}, // '0'
01656 {49, 11, 20, 620}, // '1'
01657 {50, 13, 20, 660}, // '2'
01658 {51, 13, 20, 700}, // '3'
01659 {52, 14, 20, 740}, // '4'
01660 {53, 15, 20, 780}, // '5'
01661 {54, 14, 20, 820}, // '6'
01662 {55, 13, 20, 860}, // '7'
01663 {56, 13, 20, 900}, // '8'
01664 {57, 13, 20, 940}, // '9'
01665 {58, 8, 20, 980}, // ':'
01666 {59, 8, 20, 1000}, // ';'
01667 {60, 11, 20, 1020}, // '<'
01668 {61, 13, 20, 1060}, // '='
01669 {62, 11, 20, 1100}, // '>'
01670 {63, 13, 20, 1140}, // '?'
01671 {64, 19, 20, 1180}, // '@'
01672 {65, 14, 20, 1240}, // 'A'
01673 {66, 15, 20, 1280}, // 'B'
01674 {67, 16, 20, 1320}, // 'C'
01675 {68, 15, 20, 1360}, // 'D'
01676 {69, 15, 20, 1400}, // 'E'
01677 {70, 14, 20, 1440}, // 'F'
01678 {71, 16, 20, 1480}, // 'G'
01679 {72, 15, 20, 1520}, // 'H'
01680 {73, 10, 20, 1560}, // 'I'
01681 {74, 12, 20, 1600}, // 'J'
01682 {75, 14, 20, 1640}, // 'K'
01683 {76, 14, 20, 1680}, // 'L'
01684 {77, 15, 20, 1720}, // 'M'
01685 {78, 15, 20, 1760}, // 'N'
01686 {79, 17, 20, 1800}, // 'O'
01687 {80, 15, 20, 1860}, // 'P'
01688 {81, 17, 20, 1900}, // 'Q'
01689 {82, 17, 20, 1960}, // 'R'
01690 {83, 14, 20, 2020}, // 'S'
01691 {84, 15, 20, 2060}, // 'T'
01692 {85, 15, 20, 2100}, // 'U'
01693 {86, 15, 20, 2140}, // 'V'
01694 {87, 15, 20, 2180}, // 'W'
01695 {88, 15, 20, 2220}, // 'X'
01696 {89, 15, 20, 2260}, // 'Y'
01697 {90, 15, 20, 2300}, // 'Z'
01698 {91, 9, 20, 2340}, // '['
01699 {92, 13, 20, 2380}, // '\'
01700 {93, 9, 20, 2420}, // ']'
01701 {94, 13, 20, 2460}, // '^'
01702 {95, 14, 20, 2500}, // '_'
01703 {96, 9, 20, 2540}, // '`'
01704 {97, 14, 20, 2580}, // 'a'
01705 {98, 15, 20, 2620}, // 'b'
01706 {99, 14, 20, 2660}, // 'c'
01707 {100, 13, 20, 2700}, // 'd'
01708 {101, 13, 20, 2740}, // 'e'
01709 {102, 13, 20, 2780}, // 'f'
01710 {103, 13, 20, 2820}, // 'g'
01711 {104, 13, 20, 2860}, // 'h'
01712 {105, 7, 20, 2900}, // 'i'
01713 {106, 12, 20, 2920}, // 'j'
01714 {107, 13, 20, 2960}, // 'k'
01715 {108, 7, 20, 3000}, // 'l'
01716 {109, 19, 20, 3020}, // 'm'
01717 {110, 14, 20, 3080}, // 'n'
01718 {111, 13, 20, 3120}, // 'o'
01719 {112, 14, 20, 3160}, // 'p'
01720 {113, 13, 20, 3200}, // 'q'
01721 {114, 12, 20, 3240}, // 'r'
01722 {115, 12, 20, 3280}, // 's'
01723 {116, 10, 20, 3320}, // 't'
01724 {117, 13, 20, 3360}, // 'u'
01725 {118, 15, 20, 3400}, // 'v'
01726 {119, 16, 20, 3440}, // 'w'
01727 {120, 15, 20, 3480}, // 'x'
01728 {121, 13, 20, 3520}, // 'y'
01729 {122, 13, 20, 3560}, // 'z'
01730 {123, 10, 20, 3600}, // '{'

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01731     {124, 7, 20, 3640}, // '|'
01732     {125, 10, 20, 3660}, // '}'
01733     {126, 15, 20, 3700} // '~'
01734 };
01735
01736 const uint8_t minecraft_2_data[3740] = {
01737     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01738     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01739     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01740     0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x00, 0x30, 0x30, 0x00, 0x00, 0x00, 0x00,
01741     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0C, 0xC0, 0xC0, 0xC0,
01742     0x0C, 0xC0, 0x0C, 0xC0, 0x33, 0x00, 0x33, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01743     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01744     0x00, 0x00, 0x00, 0x00, 0x0C, 0xC0, 0xC0, 0xC0, 0xC0, 0xC0, 0x3F, 0xF0, 0x3F, 0xF0, 0x0C, 0xC0,
01745     0x0C, 0xC0, 0x3F, 0xF0, 0x3F, 0xF0, 0x0C, 0xC0, 0x0C, 0xC0, 0x0C, 0xC0, 0x00, 0x00, 0x00, 0x00,
01746     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x03, 0x00, 0x03, 0x00, 0x0F, 0xC0, 0x0F, 0xC0,
01747     0x30, 0x00, 0x30, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x03, 0x00, 0x03, 0x00, 0x3F, 0xC0, 0x3F, 0xC0,
01748     0x03, 0x00, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01749     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0C, 0x08, 0x00, 0x12,
01750     0x08, 0x00, 0x12, 0x10, 0x00, 0x12, 0x20, 0x00, 0x12, 0x20, 0x00, 0x0C, 0x40, 0x00, 0x00, 0x8C,
01751     0x00, 0x00, 0x92, 0x00, 0x01, 0x12, 0x00, 0x02, 0x12, 0x00, 0x02, 0x12, 0x00, 0x04, 0x0C, 0x00,
01752     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01753     0x03, 0x00, 0x03, 0x00, 0x0C, 0xC0, 0xC0, 0xC0, 0x0F, 0x30, 0x0F, 0x30, 0x30, 0xC0, 0x30, 0xC0,
01754     0x30, 0xC0, 0x30, 0xC0, 0x0F, 0x30, 0x0F, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01755     0x30, 0x30, 0x30, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01756     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x0F, 0x00,
01757     0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00,
01758     0x0F, 0x00, 0x0F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01759     0x00, 0x00, 0x00, 0x00, 0x3C, 0x00, 0x3C, 0x00, 0x03, 0x00, 0x03, 0x00, 0x03, 0x00, 0x03, 0x00,
01760     0x03, 0x00, 0x03, 0x00, 0x03, 0x00, 0x03, 0x00, 0x3C, 0x00, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00,
01761     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x33, 0x00, 0x33, 0x00,
01762     0x1E, 0x00, 0x1E, 0x00, 0x33, 0x00, 0x33, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01763     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01764     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x03, 0x00, 0x03, 0x00, 0x03, 0x00, 0x1F, 0xE0,
01765     0x1F, 0xE0, 0x03, 0x00, 0x03, 0x00, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01766     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x10, 0x20,
01767     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01768     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00,
01769     0x3E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01770     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x00, 0x00, 0x00, 0x00,
01771     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x00, 0x40,
01772     0x00, 0x80, 0x01, 0x00, 0x01, 0x00, 0x02, 0x00, 0x04, 0x00, 0x04, 0x00, 0x08, 0x00, 0x10, 0x00,
01773     0x10, 0x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01774     0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x0F, 0x00, 0x30, 0xC0, 0x31, 0xC0, 0x31, 0xC0, 0x36, 0xC0,
01775     0x36, 0xC0, 0x38, 0xC0, 0x38, 0xC0, 0x30, 0xC0, 0x0F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01776     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x0C, 0x00,
01777     0x3C, 0x00, 0x3C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00,
01778     0x3F, 0x00, 0x3F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01779     0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x0F, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x03, 0x00, 0x03, 0x00,
01780     0x0C, 0x00, 0x0C, 0x00, 0x30, 0x00, 0x30, 0x00, 0x3F, 0xC0, 0x3F, 0xC0, 0x00, 0x00, 0x00, 0x00,
01781     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x0F, 0x00,
01782     0x30, 0xC0, 0x30, 0xC0, 0x00, 0xC0, 0x03, 0x00, 0x03, 0x00, 0x00, 0x00, 0xC0, 0x30, 0xC0, 0x30, 0xC0,
01783     0x0F, 0x00, 0x0F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01784     0x00, 0x00, 0x00, 0x00, 0x00, 0xC0, 0x00, 0xC0, 0x03, 0xC0, 0x03, 0xC0, 0x0C, 0xC0, 0x0C, 0xC0,
01785     0x30, 0xC0, 0x30, 0xC0, 0x3F, 0xE0, 0x3F, 0xE0, 0x00, 0xC0, 0x00, 0xC0, 0x00, 0x00, 0x00, 0x00,
01786     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xC0, 0x3F, 0xC0,
01787     0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x0F, 0xC0, 0x0F, 0xC0, 0x20, 0x30, 0x20, 0x30,
01788     0x1F, 0xC0, 0x1F, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01789     0x00, 0x00, 0x00, 0x00, 0x03, 0xC0, 0x03, 0xC0, 0x0C, 0x00, 0x0C, 0x00, 0x30, 0x00, 0x30, 0x00,
01790     0x3F, 0x80, 0x3F, 0x80, 0x30, 0x60, 0x30, 0x60, 0x0F, 0x80, 0x0F, 0x80, 0x00, 0x00, 0x00, 0x00,
01791     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xC0, 0x3F, 0xC0,
01792     0x30, 0xC0, 0x30, 0xC0, 0x03, 0x00, 0x03, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00,
01793     0x0C, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01794     0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x0F, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x0F, 0x00,
01795     0x0F, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x0F, 0x00, 0x0F, 0x00, 0x00, 0x00, 0x00, 0x00,
01796     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x0F, 0x00,
01797     0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x0F, 0xC0, 0x0F, 0xC0, 0x00, 0xC0, 0x00, 0xC0,
01798     0x0F, 0x00, 0x0F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18,
01799     0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01800     0x00, 0x18, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x18, 0x08, 0x10, 0x00, 0x00, 0x00, 0x00,
01801     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01802     0x03, 0x00, 0x03, 0x00, 0x0C, 0x00, 0x30, 0x00, 0x30, 0x00, 0x0C, 0x00, 0x03, 0x00, 0x03, 0x00,
01803     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01804     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xC0, 0x3F, 0xC0, 0x00, 0x00,
01805     0x00, 0x00, 0x3F, 0xC0, 0x3F, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01806     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01807     0x30, 0x00, 0x30, 0x00, 0x0C, 0x00, 0x03, 0x00, 0x03, 0x00, 0x00, 0x0C, 0x00, 0x30, 0x00, 0x30, 0x00,
01808     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01809     0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x0F, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x00, 0xC0, 0x03, 0x00,
01810     0x03, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00,
01811     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0xFC, 0x00, 0x1F, 0xFE,
01812     0x00, 0x30, 0x03, 0x00, 0x30, 0x03, 0x00, 0x30, 0xFB, 0x00, 0x30, 0xFB, 0x00, 0x33, 0x1B, 0x00,
01813     0x33, 0x1B, 0x00, 0x33, 0x1B, 0x00, 0x33, 0x1B, 0x00, 0x33, 0xFF, 0x00, 0x33, 0xFC, 0x00, 0x30,
01814     0x03, 0x00, 0x1F, 0xFE, 0x00, 0x0F, 0xFC, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01815     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0x80, 0x0F, 0x80, 0x30, 0x60, 0x30, 0x60,
01816     0x3F, 0xE0, 0x3F, 0xE0, 0x30, 0x60, 0x30, 0x60, 0x60, 0x30, 0x60, 0x30, 0x60, 0x30, 0x60,
01817     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
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Generated by Doxygen

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01905     0x30, 0x60, 0x30, 0x00, 0x30, 0x60, 0x30, 0x60, 0x0F, 0x80, 0x0F, 0x80, 0x00, 0x00, 0x00, 0x00,
01906     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01907     0x00, 0xC0, 0x0F, 0xC0, 0x0F, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0,
01908     0x3F, 0xC0, 0x3F, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01909     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0xC0, 0x0F, 0xC0, 0x30, 0xC0,
01910     0x3F, 0xC0, 0x3F, 0x00, 0x30, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x0F, 0xC0, 0x0F, 0xC0, 0x00, 0x00, 0x00,
01911     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0x80, 0x0F, 0x80,
01912     0x0C, 0x00, 0x3F, 0xC0, 0x3F, 0xC0, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00,
01913     0x0C, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01914     0x00, 0x00, 0x0F, 0xC0, 0x0F, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x0F, 0xC0, 0x0F, 0xC0, 0x00, 0x00, 0xC0,
01915     0x00, 0xC0, 0x00, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x0F, 0x00, 0x0F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01916     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x00,
01917     0x30, 0x00, 0x30, 0x00, 0x33, 0x00, 0x33, 0x00, 0x3C, 0xC0, 0x3C, 0xC0, 0x30, 0xC0, 0x30, 0xC0,
01918     0x30, 0xC0, 0x30, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x00, 0x30,
01919     0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01920     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x80, 0x01, 0x80, 0x00, 0x00, 0x01, 0x80,
01921     0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x31, 0x80, 0x31, 0x80, 0x0E, 0x00, 0x0E, 0x00,
01922     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01923     0x30, 0x00, 0x30, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x33, 0x00, 0x33, 0x00, 0x3C, 0x00, 0x3C, 0x00,
01924     0x33, 0x00, 0x33, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01925     0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30,
01926     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01927     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3F, 0x3C,
01928     0x3F, 0x3C, 0x00, 0x30, 0xC3, 0x00, 0x30, 0xC3, 0x00, 0x30, 0xC3, 0x00, 0x30, 0xC3, 0x00, 0x30,
01929     0xC3, 0x00, 0x30, 0xC3, 0x00, 0x30, 0xC3, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01930     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3F,
01931     0x3F, 0x80, 0x30, 0x60, 0x30, 0x60, 0x30, 0x60, 0x30, 0x60, 0x30, 0x60, 0x30, 0x60, 0x30, 0x60,
01932     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01933     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0x00, 0x0F, 0x00, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x30,
01934     0x30, 0xC0, 0x30, 0xC0, 0x0F, 0x00, 0x0F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01935     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x33, 0x80, 0x33, 0x80, 0x3C, 0x60, 0x3C, 0x60,
01936     0x30, 0x60, 0x30, 0x60, 0x3F, 0x80, 0x3F, 0x80, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00,
01937     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01938     0x0E, 0xC0, 0x0F, 0xC0, 0x31, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0,
01939     0x0F, 0xC0, 0x00, 0xC0, 0x00, 0xC0, 0x00, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01940     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01941     0x3F, 0x80, 0x38, 0x80, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00,
01942     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01943     0x00, 0x00, 0x00, 0x00, 0x00, 0x0F, 0x80, 0x0F, 0x80, 0x30, 0x00, 0x30, 0x00, 0x00, 0x00, 0x00,
01944     0x01, 0x80, 0x01, 0x80, 0x3E, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01945     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00,
01946     0x3C, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x06, 0x00, 0x06, 0x00,
01947     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01948     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0,
01949     0x30, 0xC0, 0x30, 0xC0, 0x0F, 0xC0, 0x0F, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01950     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01951     0x00, 0x00, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x0C, 0xC0, 0x0C, 0xC0, 0x03, 0x00, 0x03, 0x00,
01952     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01953     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x18, 0x30, 0x18, 0x30, 0x18, 0x30, 0x18,
01954     0x31, 0x98, 0x31, 0x98, 0x0F, 0xF8, 0x0F, 0xF8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01955     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x30, 0x30,
01956     0x0C, 0xC0, 0x0C, 0xC0, 0x03, 0x00, 0x03, 0x00, 0x0C, 0xC0, 0x0C, 0xC0, 0x30, 0x30, 0x30, 0x30,
01957     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01958     0x00, 0x00, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x30, 0xC0, 0x0F, 0xC0, 0x0F, 0xC0,
01959     0x00, 0xC0, 0x00, 0xC0, 0x3F, 0x00, 0x3F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01960     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xC0, 0x3F, 0xC0,
01961     0x01, 0x80, 0x01, 0x80, 0x06, 0x00, 0x06, 0x00, 0x18, 0x00, 0x18, 0x00, 0x3F, 0xC0, 0x3F, 0xC0,
01962     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x06, 0x00, 0x06, 0x00, 0x18, 0x00, 0x18, 0x00,
01963     0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x30, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00, 0x18, 0x00,
01964     0x18, 0x00, 0x18, 0x00, 0x06, 0x00, 0x06, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x30, 0x30,
01965     0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x00, 0x00, 0x00, 0x00,
01966     0x00, 0x00, 0x00, 0x00, 0x30, 0x00, 0x30, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00,
01967     0x0C, 0x00, 0x06, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x0C, 0x00, 0x00, 0x0C, 0x00,
01968     0x30, 0x00, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01969     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0E, 0x30,
01970     0x31, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
01971 };
01972
01973 // Font 8: sga
01974 // Characters: 95, Data size: 6300 bytes
01975
01976 const uint16_t sga_index[95][4] = {
01977     {32, 8, 25, 0}, // SPACE
01978     {33, 21, 25, 25}, // '!'
01979     {34, 15, 25, 100}, // '"'
01980     {35, 21, 25, 150}, // '#'
01981     {36, 17, 25, 225}, // '$'
01982     {37, 21, 25, 300}, // '%'
01983     {38, 21, 25, 375}, // '&'
01984     {39, 15, 25, 450}, // "'"
01985     {40, 15, 25, 500}, // '('
01986     {41, 15, 25, 550}, // ')'
01987     {42, 24, 25, 600}, // '*'
01988     {43, 15, 25, 675}, // '+'
01989     {44, 19, 25, 725}, // ','
01990     {45, 17, 25, 800}, // '-'
01991     {46, 24, 25, 875}, // '.'

```

```

01992     {47, 17, 25, 950},    // '/'
01993     {48, 17, 25, 1025},   // '0'
01994     {49, 19, 25, 1100},   // '1'
01995     {50, 15, 25, 1175},   // '2'
01996     {51, 17, 25, 1225},   // '3'
01997     {52, 17, 25, 1300},   // '4'
01998     {53, 19, 25, 1375},   // '5'
01999     {54, 17, 25, 1450},   // '6'
02000     {55, 15, 25, 1525},   // '7'
02001     {56, 17, 25, 1575},   // '8'
02002     {57, 17, 25, 1650},   // '9'
02003     {58, 24, 25, 1725},   // ':'
02004     {59, 24, 25, 1800},   // ';'
02005     {60, 19, 25, 1875},   // '<'
02006     {61, 17, 25, 1950},   // '='
02007     {62, 19, 25, 2025},   // '>'
02008     {63, 21, 25, 2100},   // '?'
02009     {64, 21, 25, 2175},   // '@'
02010     {65, 21, 25, 2250},   // 'A'
02011     {66, 17, 25, 2325},   // 'B'
02012     {67, 12, 25, 2400},   // 'C'
02013     {68, 17, 25, 2450},   // 'D'
02014     {69, 17, 25, 2525},   // 'E'
02015     {70, 19, 25, 2600},   // 'F'
02016     {71, 17, 25, 2675},   // 'G'
02017     {72, 19, 25, 2750},   // 'H'
02018     {73, 10, 25, 2825},   // 'I'
02019     {74, 10, 25, 2875},   // 'J'
02020     {75, 19, 25, 2925},   // 'K'
02021     {76, 15, 25, 3000},   // 'L'
02022     {77, 17, 25, 3050},   // 'M'
02023     {78, 15, 25, 3125},   // 'N'
02024     {79, 17, 25, 3175},   // 'O'
02025     {80, 15, 25, 3250},   // 'P'
02026     {81, 19, 25, 3300},   // 'Q'
02027     {82, 17, 25, 3375},   // 'R'
02028     {83, 12, 25, 3450},   // 'S'
02029     {84, 17, 25, 3500},   // 'T'
02030     {85, 19, 25, 3575},   // 'U'
02031     {86, 19, 25, 3650},   // 'V'
02032     {87, 15, 25, 3725},   // 'W'
02033     {88, 19, 25, 3775},   // 'X'
02034     {89, 15, 25, 3850},   // 'Y'
02035     {90, 17, 25, 3900},   // 'Z'
02036     {91, 15, 25, 3975},   // '['
02037     {92, 17, 25, 4025},   // '\'
02038     {93, 15, 25, 4100},   // ']'
02039     {94, 19, 25, 4150},   // '^'
02040     {95, 19, 25, 4225},   // '_'
02041     {96, 15, 25, 4300},   // '`'
02042     {97, 21, 25, 4350},   // 'a'
02043     {98, 17, 25, 4425},   // 'b'
02044     {99, 12, 25, 4500},   // 'c'
02045     {100, 17, 25, 4550},   // 'd'
02046     {101, 17, 25, 4625},   // 'e'
02047     {102, 19, 25, 4700},   // 'f'
02048     {103, 17, 25, 4775},   // 'g'
02049     {104, 19, 25, 4850},   // 'h'
02050     {105, 10, 25, 4925},   // 'i'
02051     {106, 10, 25, 4975},   // 'j'
02052     {107, 19, 25, 5025},   // 'k'
02053     {108, 15, 25, 5100},   // 'l'
02054     {109, 17, 25, 5150},   // 'm'
02055     {110, 15, 25, 5225},   // 'n'
02056     {111, 17, 25, 5275},   // 'o'
02057     {112, 15, 25, 5350},   // 'p'
02058     {113, 19, 25, 5400},   // 'q'
02059     {114, 17, 25, 5475},   // 'r'
02060     {115, 12, 25, 5550},   // 's'
02061     {116, 17, 25, 5600},   // 't'
02062     {117, 19, 25, 5675},   // 'u'
02063     {118, 19, 25, 5750},   // 'v'
02064     {119, 15, 25, 5825},   // 'w'
02065     {120, 19, 25, 5875},   // 'x'
02066     {121, 15, 25, 5950},   // 'y'
02067     {122, 17, 25, 6000},   // 'z'
02068     {123, 15, 25, 6075},   // '{'
02069     {124, 10, 25, 6125},   // '|'
02070     {125, 15, 25, 6175},   // '}'
02071     {126, 19, 25, 6225},   // '~'
02072 };
02073
02074 const uint8_t sga_data[6300] = {
02075     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02076     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02077     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02078     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,

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Generated by Doxygen

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Generated by Doxygen

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02427     0x00, 0x00, 0x60, 0x00, 0x00, 0x60, 0x00, 0x00, 0x60, 0x00, 0x00, 0x60, 0x00, 0x00, 0x60, 0x00,
02428     0x00, 0x60, 0x00, 0x00, 0x60, 0x00, 0x00, 0x60, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02429     0x60, 0x00, 0x00, 0x60, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02430     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02431     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02432     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02433     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xF8, 0x00, 0x3F, 0xF8, 0x00,
02434     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02435     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02436     0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x00,
02437     0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x3F, 0xF8, 0x00, 0x3F, 0xF8, 0x00, 0x00, 0x00, 0x00, 0x00,
02438     0x00, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xF8, 0x00, 0x3F, 0xF8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02439     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02440     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02441     0x00, 0x0C, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x33, 0x00, 0x00,
02442     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02443     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02444     0x00, 0x00, 0x00, 0x00, 0x30, 0x18, 0x00, 0x30, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x60, 0x00,
02445     0x00, 0x60, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02446     0x00, 0x00, 0x30, 0x00, 0x00, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02447     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02448     0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x31, 0x80,
02449     0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x31, 0x80, 0x00, 0x00, 0x00, 0x00,
02450     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02451     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02452     0x00, 0x0F, 0x80, 0x00, 0x0F, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x60, 0x00, 0x30, 0x60,
02453     0x30, 0x60, 0x00, 0x30, 0x60, 0x00, 0x00, 0x30, 0x60, 0x00, 0x30, 0x60, 0x00, 0x30, 0x60, 0x00,
02454     0x60, 0x00, 0x30, 0x60, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02455     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x00, 0x30,
02456     0x00, 0x31, 0x80, 0x31, 0x80, 0x80, 0x30, 0x00, 0x3E, 0x00, 0x3E, 0x00, 0x3E, 0x00, 0x3E, 0x00,
02457     0x00, 0x31, 0x80, 0x31, 0x80, 0x30, 0x00, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02458     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02459     0x00, 0x00, 0x00, 0x30, 0x00, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00,
02460     0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02461     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02462     0x00, 0x01, 0x80, 0x01, 0x80, 0x31, 0x80, 0x31, 0x80, 0x01, 0x80, 0x0F, 0x80, 0x0F, 0x80, 0x0F,
02463     0x80, 0x0F, 0x80, 0x01, 0x80, 0x31, 0x80, 0x31, 0x80, 0x01, 0x80, 0x01, 0x80, 0x00, 0x00, 0x00,
02464     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02465     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02466     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3E, 0x00, 0x00, 0x3E,
02467     0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x00,
02468     0x00, 0x7C, 0x00, 0x00, 0x7C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
02469 };
02470
02471 // Font lookup structure
02472 typedef struct {
02473     const char* name;
02474     uint16_t size;
02475     uint16_t num_chars;
02476     const uint16_t (*index)[4];
02477     const uint8_t* data;
02478 } FontInfo;
02479
02480 const FontInfo available_fonts[8] = {
02481     {"arial", 1, 95, arial_index, arial_data},
02482     {"arial", 2, 95, arial_2_index, arial_2_data},
02483     {"default", 1, 95, default_index, default_data},
02484     {"consolas", 1, 95, consolas_index, consolas_data},
02485     {"consolas", 2, 95, consolas_2_index, consolas_2_data},
02486     {"minecraft", 1, 95, minecraft_index, minecraft_data},
02487     {"minecraft", 2, 95, minecraft_2_index, minecraft_2_data},
02488     {"sga", 1, 95, sga_index, sga_data}
02489 };
02490
02491 #define NUM_FONTS 8
02492
02493 #endif // COMBINED_CHARSETS_H

```

6.4 dma.h

```

00001
00019 /* Define to prevent recursive inclusion -----*/
00020 #ifndef __dma_H
00021 #define __dma_H
00022
00023 #ifdef __cplusplus
00024     extern "C" {
00025 #endif
00026
00027 /* Includes -----*/
00028 #include "main.h"
00029
00030 /* DMA memory to memory transfer handles -----*/

```

```

00031
00032 /* USER CODE BEGIN Includes */
00033
00034 /* USER CODE END Includes */
00035
00036 /* USER CODE BEGIN Private defines */
00037
00038 /* USER CODE END Private defines */
00039
00040 void MX_DMA_Init(void);
00041
00042 /* USER CODE BEGIN Prototypes */
00043
00044 /* USER CODE END Prototypes */
00045
00046 #ifdef __cplusplus
00047 }
00048 #endif
00049
00050 #endif /* __dma_H */
00051
00055
00056 /***** (C) COPYRIGHT STMicroelectronics *****/

```

6.5 gpio.h

```

00001
00019
00020 /* Define to prevent recursive inclusion -----*/
00021 #ifndef __gpio_H
00022 #define __gpio_H
00023 #ifdef __cplusplus
00024     extern "C" {
00025 #endif
00026
00027 /* Includes -----*/
00028 #include "main.h"
00029
00030 /* USER CODE BEGIN Includes */
00031
00032 /* USER CODE END Includes */
00033
00034 /* USER CODE BEGIN Private defines */
00035
00036 /* USER CODE END Private defines */
00037
00038 void MX_GPIO_Init(void);
00039
00040 /* USER CODE BEGIN Prototypes */
00041
00042 /* USER CODE END Prototypes */
00043
00044 #ifdef __cplusplus
00045 }
00046 #endif
00047 #endif /* __pinoutConfig_H */
00048
00052
00056
00057 /***** (C) COPYRIGHT STMicroelectronics *****/

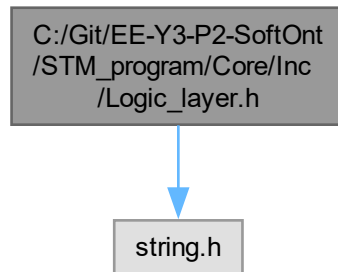
```

6.6 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Inc/Logic_layer.h File Reference

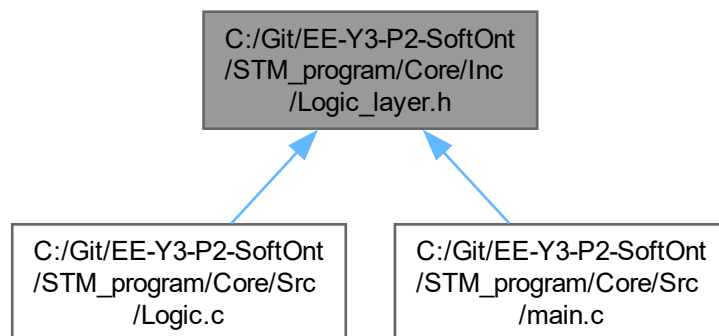
: Header voor Logic_layer.c file. In dit bestand word de logic functie en struct gedefinieerd.

```
#include <string.h>
```

Include dependency graph for Logic_layer.h:



This graph shows which files directly or indirectly include this file:



Classes

- struct [LogicInterface](#)

Functions

- int [execute_command](#) (struct [LogicInterface](#) *cmd)

6.6.1 Detailed Description

: Header voor `Logic_layer.c` file. In dit bestand word de logic functie en struct gedefinieerd.

6.6.2 Function Documentation

6.6.2.1 execute_command()

```
int execute_command (
    struct LogicInterface * cmd)
```

//configuratie doorsturen naar de parser en hieruit de juiste api's uitvoeren.

Parameters

<i>struct</i>	LogicInterface* cmd Pointer naar de LogicInterface struct met commando informatie.
---------------	--

Returns

int Statuscode (0 = succes, anders fout).

Executeer een commando

Parameters

<i>cmd</i>	In parameter: het commando dat uitgevoerd moet worden
<i>parsed</i>	Geparste argumenten
<i>result</i>	Uit parameter: de return waarde van de API functie

Returns

0 bij succes, errno waarde bij fout

6.7 Logic_layer.h

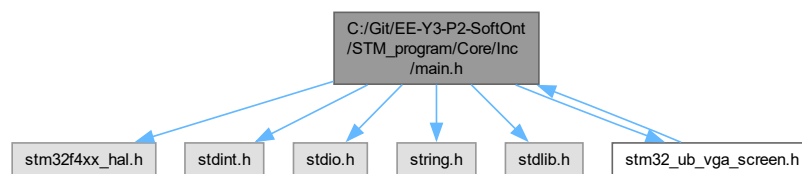
[Go to the documentation of this file.](#)

```
00001
00008
00009 #ifndef LOGIC_LAYER_H_
00010 #define LOGIC_LAYER_H_
00011
00012 #include <string.h>
00013
00023
00024 struct LogicInterface
00025 {
00026     char function_name[15];
00027     int argument_len;
00028     char *arguments;
00029 };
00030
00037
00038 int execute_command(struct LogicInterface* cmd);
00039 #endif /* LOGIC_LAYER_H_ */
```

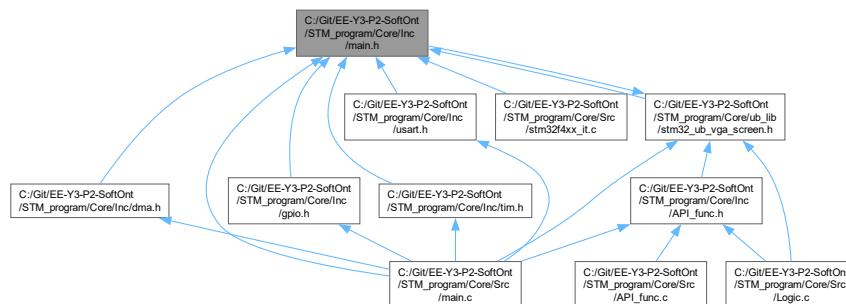
6.8 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Inc/main.h File Reference

: Header for [main.c](#) file. This file contains the common defines of the application.

```
#include "stm32f4xx_hal.h"
#include "stdint.h"
#include "stdio.h"
#include "string.h"
#include <stdlib.h>
#include "stm32_ub_vga_screen.h"
Include dependency graph for main.h:
```



This graph shows which files directly or indirectly include this file:



Classes

- struct [input_vars](#)

Macros

- #define **VGA_BLUE0_Pin** GPIO_PIN_8
- #define **VGA_BLUE0_GPIO_Port** GPIOE
- #define **VGA_BLUE1_Pin** GPIO_PIN_9
- #define **VGA_BLUE1_GPIO_Port** GPIOE
- #define **VGA_GREEN0_Pin** GPIO_PIN_10
- #define **VGA_GREEN0_GPIO_Port** GPIOE
- #define **VGA_GREEN1_Pin** GPIO_PIN_11

- `#define VGA_GREEN1_GPIO_Port GPIOE`
- `#define VGA_GREEN2_Pin GPIO_PIN_12`
- `#define VGA_GREEN2_GPIO_Port GPIOE`
- `#define VGA_RED0_Pin GPIO_PIN_13`
- `#define VGA_RED0_GPIO_Port GPIOE`
- `#define VGA_RED1_Pin GPIO_PIN_14`
- `#define VGA_RED1_GPIO_Port GPIOE`
- `#define VGA_RED2_Pin GPIO_PIN_15`
- `#define VGA_RED2_GPIO_Port GPIOE`
- `#define VGA_HSYNC_Pin GPIO_PIN_11`
- `#define VGA_HSYNC_GPIO_Port GPIOB`
- `#define VGA_VSYNC_Pin GPIO_PIN_12`
- `#define VGA_VSYNC_GPIO_Port GPIOB`
- `#define BYTE_BUFLen 1`
- `#define LINE_BUFLen 1024`
- `#define CARRIAGE_RETURN 13 /* carriage return char \r */`
- `#define LINE_FEED 10 /* linefeed char \n */`
- `#define FALSE 0x00`
- `#define TRUE 0xFF`

Functions

- void [Error_Handler](#) (void)
This function is executed in case of error occurrence.

Variables

- [input_vars](#) input
- volatile char **container** [1024]
- volatile int **temp**
- volatile int **key**

6.8.1 Detailed Description

: Header for [main.c](#) file. This file contains the common defines of the application.

Attention

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6.8.2 Function Documentation

6.8.2.1 Error_Handler()

```
void Error_Handler (
    void )
```

This function is executed in case of error occurrence.

Return values

None	
------	--

6.9 main.h

[Go to the documentation of this file.](#)

```
00001 /* USER CODE BEGIN Header */
00002 /* USER CODE END Header */
00003
00004 /* Define to prevent recursive inclusion -----*/
00005 #ifndef __MAIN_H
00006 #define __MAIN_H
00007
00008 #ifdef __cplusplus
00009 extern "C" {
00010 #endif
00011
00012 /* Includes -----*/
00013 #include "stm32f4xx_hal.h"
00014
00015 /* Private includes -----*/
00016 /* USER CODE BEGIN Includes */
00017 #include "stdint.h"
00018
00019 #include "stdio.h"
00020 #include "string.h"
00021 #include <stdlib.h>
00022
00023 #include "stm32_ub_vga_screen.h"
00024
00025 /* USER CODE END Includes */
00026
00027 /* Exported types -----*/
00028 /* USER CODE BEGIN ET */
00029
00030 /* USER CODE END ET */
00031
00032 /* Exported constants -----*/
00033 /* USER CODE BEGIN EC */
00034
00035 /* USER CODE END EC */
00036
00037 /* Exported macro -----*/
00038 /* USER CODE BEGIN EM */
00039
00040 /* USER CODE END EM */
00041
00042 /* Exported functions prototypes -----*/
00043 void Error_Handler(void);
00044
00045 /* USER CODE BEGIN EFP */
00046
00047 /* USER CODE END EFP */
00048
00049 /* Private defines -----*/
00050 #define VGA_BLUE0_Pin GPIO_PIN_8
00051 #define VGA_BLUE0_GPIO_Port GPIOE
00052 #define VGA_BLUE1_Pin GPIO_PIN_9
00053 #define VGA_BLUE1_GPIO_Port GPIOE
00054 #define VGA_GREEN0_Pin GPIO_PIN_10
00055 #define VGA_GREEN0_GPIO_Port GPIOE
00056 #define VGA_GREEN1_Pin GPIO_PIN_11
00057 #define VGA_GREEN1_GPIO_Port GPIOE
00058 #define VGA_GREEN2_Pin GPIO_PIN_12
00059 #define VGA_GREEN2_GPIO_Port GPIOE
```

```

00078 #define VGA_RED0_Pin GPIO_PIN_13
00079 #define VGA_RED0_GPIO_Port GPIOE
00080 #define VGA_RED1_Pin GPIO_PIN_14
00081 #define VGA_RED1_GPIO_Port GPIOE
00082 #define VGA_RED2_Pin GPIO_PIN_15
00083 #define VGA_RED2_GPIO_Port GPIOE
00084 #define VGA_HSYNC_Pin GPIO_PIN_11
00085 #define VGA_HSYNC_GPIO_Port GPIOB
00086 #define VGA_VSYNC_Pin GPIO_PIN_12
00087 #define VGA_VSYNC_GPIO_Port GPIOB
00088 /* USER CODE BEGIN Private defines */
00089
00090 #define BYTE_BUFLEN      1
00091 #define LINE_BUFLEN      1024
00092 #define CARRIAGE_RETURN  13 /* carriage return char \r */
00093 #define LINE_FEED        10 /* linefeed char \n */
00094
00095 #define FALSE            0x00
00096 #define TRUE             0xFF
00097
00098 /* Struct's -----*/
00099 typedef struct
00100 {
00101     uint8_t byte_buffer_rx[BYTE_BUFLEN];    // Store the rx byte from the USART2
00102     char line_rx_buffer[LINE_BUFLEN];        // Buffer to hold all the bytes from rx USART2
00103     int msglen;
00104     volatile int char_counter;               // Counter for line_rx_buffer
00105     char command_execute_flag;               /* Set = whole transmission is received, ready for
processing \
00106                                         Reset = still receiving*/
00107 }input_vars;
00108 extern input_vars input;
00109
00110 /* Globals -----*/
00111 extern volatile char container[1024];
00112 extern volatile int temp;
00113 extern volatile int key;
00114
00115 /* USER CODE END Private defines */
00116
00117 #ifdef __cplusplus
00118 }
00119 #endif
00120
00121 #endif /* __MAIN_H */
00122
00123 /***** (C) COPYRIGHT STMicroelectronics *****/

```

6.10 stm32f4xx_hal_conf.h

```

00001
00002
00003 /* Define to prevent recursive inclusion -----*/
00004 #ifndef __STM32F4xx_HAL_CONF_H
00005 #define __STM32F4xx_HAL_CONF_H
00006
00007 #ifdef __cplusplus
00008 extern "C" {
00009 #endif
00010
00011 /* Exported types -----*/
00012 /* Exported constants -----*/
00013
00014 /* ##### Module Selection ##### */
00015 #define HAL_MODULE_ENABLED
00016
00017 /* #define HAL_ADC_MODULE_ENABLED */
00018 /* #define HAL_CRYP_MODULE_ENABLED */
00019 /* #define HAL_CAN_MODULE_ENABLED */
00020 /* #define HAL_CRC_MODULE_ENABLED */
00021 /* #define HAL_CAN_LEGACY_MODULE_ENABLED */
00022 /* #define HAL_CRYP_MODULE_ENABLED */
00023 /* #define HAL_DAC_MODULE_ENABLED */
00024 /* #define HAL_DCMI_MODULE_ENABLED */
00025 /* #define HAL_DMA2D_MODULE_ENABLED */
00026 /* #define HAL_ETH_MODULE_ENABLED */
00027 /* #define HAL_NAND_MODULE_ENABLED */
00028 /* #define HAL_NOR_MODULE_ENABLED */
00029 /* #define HAL_PCCARD_MODULE_ENABLED */
00030 /* #define HAL_SRAM_MODULE_ENABLED */
00031 /* #define HAL_SDRAM_MODULE_ENABLED */
00032 /* #define HAL_HASH_MODULE_ENABLED */
00033 /* #define HAL_I2C_MODULE_ENABLED */

```

```

00056 /* #define HAL_I2S_MODULE_ENABLED */
00057 /* #define HAL_IWDG_MODULE_ENABLED */
00058 /* #define HAL_LTDC_MODULE_ENABLED */
00059 /* #define HAL_RNG_MODULE_ENABLED */
00060 /* #define HAL_RTC_MODULE_ENABLED */
00061 /* #define HAL_SAI_MODULE_ENABLED */
00062 /* #define HAL_SD_MODULE_ENABLED */
00063 /* #define HAL_MMC_MODULE_ENABLED */
00064 /* #define HAL_SPI_MODULE_ENABLED */
00065 #define HAL_TIM_MODULE_ENABLED
00066 #define HAL_UART_MODULE_ENABLED
00067 /* #define HAL_USART_MODULE_ENABLED */
00068 /* #define HAL_IRDA_MODULE_ENABLED */
00069 /* #define HAL_SMARTCARD_MODULE_ENABLED */
00070 /* #define HAL_SMBUS_MODULE_ENABLED */
00071 /* #define HAL_WWDG_MODULE_ENABLED */
00072 /* #define HAL_PCD_MODULE_ENABLED */
00073 /* #define HAL_HCD_MODULE_ENABLED */
00074 /* #define HAL_DSI_MODULE_ENABLED */
00075 /* #define HAL_QSPI_MODULE_ENABLED */
00076 /* #define HAL_QSPI_MODULE_ENABLED */
00077 /* #define HAL_CEC_MODULE_ENABLED */
00078 /* #define HAL_FMPI2C_MODULE_ENABLED */
00079 /* #define HAL_SPDIFRX_MODULE_ENABLED */
00080 /* #define HAL_DFSDM_MODULE_ENABLED */
00081 /* #define HAL_LPTIM_MODULE_ENABLED */
00082 #define HAL_GPIO_MODULE_ENABLED
00083 #define HAL_EXTI_MODULE_ENABLED
00084 #define HAL_DMA_MODULE_ENABLED
00085 #define HAL_RCC_MODULE_ENABLED
00086 #define HAL_FLASH_MODULE_ENABLED
00087 #define HAL_PWR_MODULE_ENABLED
00088 #define HAL_CORTEX_MODULE_ENABLED
00089
00090 /* ##### HSE/HSI Values adaptation ##### */
00096 #if !defined (HSE_VALUE)
00097     #define HSE_VALUE ((uint32_t)8000000U)
00098 #endif /* HSE_VALUE */
00099
00100 #if !defined (HSE_STARTUP_TIMEOUT)
00101     #define HSE_STARTUP_TIMEOUT ((uint32_t)100U)
00102 #endif /* HSE_STARTUP_TIMEOUT */
00103
00109 #if !defined (HSI_VALUE)
00110     #define HSI_VALUE ((uint32_t)16000000U)
00111 #endif /* HSI_VALUE */
00112
00116 #if !defined (LSI_VALUE)
00117     #define LSI_VALUE ((uint32_t)32000U)
00118 #endif /* LSI_VALUE */
00124 #if !defined (LSE_VALUE)
00125     #define LSE_VALUE ((uint32_t)32768U)
00126 #endif /* LSE_VALUE */
00127
00128 #if !defined (LSE_STARTUP_TIMEOUT)
00129     #define LSE_STARTUP_TIMEOUT ((uint32_t)5000U)
00130 #endif /* LSE_STARTUP_TIMEOUT */
00131
00137 #if !defined (EXTERNAL_CLOCK_VALUE)
00138     #define EXTERNAL_CLOCK_VALUE ((uint32_t)12288000U)
00139 #endif /* EXTERNAL_CLOCK_VALUE */
00140
00141 /* Tip: To avoid modifying this file each time you need to use different HSE,
00142    == you can define the HSE value in your toolchain compiler preprocessor. */
00143
00144 /* ##### System Configuration ##### */
00148 #define VDD_VALUE ((uint32_t)3300U)
00149 #define TICK_INT_PRIORITY ((uint32_t)0U)
00150 #define USE_RTOS 0U
00151 #define PREFETCH_ENABLE 1U
00152 #define INSTRUCTION_CACHE_ENABLE 1U
00153 #define DATA_CACHE_ENABLE 1U
00154
00155 #define USE_HAL_ADC_REGISTER_CALLBACKS 0U /* ADC register callback disabled */
00156 #define USE_HAL_CAN_REGISTER_CALLBACKS 0U /* CAN register callback disabled */
00157 #define USE_HAL_CEC_REGISTER_CALLBACKS 0U /* CEC register callback disabled */
00158 #define USE_HAL_Cryp_REGISTER_CALLBACKS 0U /* CRYP register callback disabled */
00159 #define USE_HAL_DAC_REGISTER_CALLBACKS 0U /* DAC register callback disabled */
00160 #define USE_HAL_DCI_REGISTER_CALLBACKS 0U /* DCMI register callback disabled */
00161 #define USE_HAL_DFSDM_REGISTER_CALLBACKS 0U /* DFSDM register callback disabled */
00162 #define USE_HAL_DMA2D_REGISTER_CALLBACKS 0U /* DMA2D register callback disabled */
00163 #define USE_HAL_DSI_REGISTER_CALLBACKS 0U /* DSI register callback disabled */
00164 #define USE_HAL_ETH_REGISTER_CALLBACKS 0U /* ETH register callback disabled */
00165 #define USE_HAL_HASH_REGISTER_CALLBACKS 0U /* HASH register callback disabled */
00166 #define USE_HAL_HCD_REGISTER_CALLBACKS 0U /* HCD register callback disabled */
00167 #define USE_HAL_I2C_REGISTER_CALLBACKS 0U /* I2C register callback disabled */
00168 #define USE_HAL_FMPI2C_REGISTER_CALLBACKS 0U /* FMPI2C register callback disabled */

```

```

00169 #define USE_HAL_I2S_REGISTER_CALLBACKS 0U /* I2S register callback disabled */
00170 #define USE_HAL_IRDA_REGISTER_CALLBACKS 0U /* IRDA register callback disabled */
00171 #define USE_HAL_LPTIM_REGISTER_CALLBACKS 0U /* LPTIM register callback disabled */
00172 #define USE_HAL_LTDC_REGISTER_CALLBACKS 0U /* LTDC register callback disabled */
00173 #define USE_HAL_MMC_REGISTER_CALLBACKS 0U /* MMC register callback disabled */
00174 #define USE_HAL_NAND_REGISTER_CALLBACKS 0U /* NAND register callback disabled */
00175 #define USE_HAL_NOR_REGISTER_CALLBACKS 0U /* NOR register callback disabled */
00176 #define USE_HAL_PCCARD_REGISTER_CALLBACKS 0U /* PCCARD register callback disabled */
00177 #define USE_HAL_PCD_REGISTER_CALLBACKS 0U /* PCD register callback disabled */
00178 #define USE_HAL_QSPI_REGISTER_CALLBACKS 0U /* QSPI register callback disabled */
00179 #define USE_HAL_RNG_REGISTER_CALLBACKS 0U /* RNG register callback disabled */
00180 #define USE_HAL_RTC_REGISTER_CALLBACKS 0U /* RTC register callback disabled */
00181 #define USE_HAL_SAI_REGISTER_CALLBACKS 0U /* SAI register callback disabled */
00182 #define USE_HAL_SD_REGISTER_CALLBACKS 0U /* SD register callback disabled */
00183 #define USE_HAL_SMARTCARD_REGISTER_CALLBACKS 0U /* SMARTCARD register callback disabled */
00184 #define USE_HAL_SDRAM_REGISTER_CALLBACKS 0U /* SDRAM register callback disabled */
00185 #define USE_HAL_SRAM_REGISTER_CALLBACKS 0U /* SRAM register callback disabled */
00186 #define USE_HAL_SPDIFRX_REGISTER_CALLBACKS 0U /* SPDIFRX register callback disabled */
00187 #define USE_HAL_SMBUS_REGISTER_CALLBACKS 0U /* SMBUS register callback disabled */
00188 #define USE_HAL_SPI_REGISTER_CALLBACKS 0U /* SPI register callback disabled */
00189 #define USE_HAL_TIM_REGISTER_CALLBACKS 0U /* TIM register callback disabled */
00190 #define USE_HAL_UART_REGISTER_CALLBACKS 0U /* UART register callback disabled */
00191 #define USE_HAL_USART_REGISTER_CALLBACKS 0U /* USART register callback disabled */
00192 #define USE_HAL_WWDG_REGISTER_CALLBACKS 0U /* WWDG register callback disabled */
00193
00194 /* ##### Assert Selection ##### */
00199 #define USE_FULL_ASSERT 1U /*
00200
00201 /* ##### Ethernet peripheral configuration ##### */
00202
00203 /* Section 1 : Ethernet peripheral configuration */
00204
00205 /* MAC ADDRESS: MAC_ADDR0:MAC_ADDR1:MAC_ADDR2:MAC_ADDR3:MAC_ADDR4:MAC_ADDR5 */
00206 #define MAC_ADDR0 2U
00207 #define MAC_ADDR1 0U
00208 #define MAC_ADDR2 0U
00209 #define MAC_ADDR3 0U
00210 #define MAC_ADDR4 0U
00211 #define MAC_ADDR5 0U
00212
00213 /* Definition of the Ethernet driver buffers size and count */
00214 #define ETH_RX_BUF_SIZE ETH_MAX_PACKET_SIZE /* buffer size for receive */
00215 #define ETH_TX_BUF_SIZE ETH_MAX_PACKET_SIZE /* buffer size for transmit */
00216 #define ETH_RXBUFNB ((uint32_t)4U) /* 4 Rx buffers of size ETH_RX_BUF_SIZE */
00217 #define ETH_TXBUFNB ((uint32_t)4U) /* 4 Tx buffers of size ETH_TX_BUF_SIZE */
00218
00219 /* Section 2: PHY configuration section */
00220
00221 /* DP83848_PHY_ADDRESS Address*/
00222 #define DP83848_PHY_ADDRESS 0x01U
00223 /* PHY Reset delay these values are based on a 1 ms SysTick interrupt*/
00224 #define PHY_RESET_DELAY ((uint32_t)0x000000FFU)
00225 /* PHY Configuration delay */
00226 #define PHY_CONFIG_DELAY ((uint32_t)0x000000FFU)
00227
00228 #define PHY_READ_TO ((uint32_t)0x000000FFU)
00229 #define PHY_WRITE_TO ((uint32_t)0x000000FFU)
00230
00231 /* Section 3: Common PHY Registers */
00232
00233 #define PHY_BCR ((uint16_t)0x0000U)
00234 #define PHY_BSR ((uint16_t)0x0001U)
00235
00236 #define PHY_RESET ((uint16_t)0x8000U)
00237 #define PHY_LOOPBACK ((uint16_t)0x4000U)
00238 #define PHY_FULLDUPLEX_100M ((uint16_t)0x2100U)
00239 #define PHY_HALFDUPLEX_100M ((uint16_t)0x2000U)
00240 #define PHY_FULLDUPLEX_10M ((uint16_t)0x0100U)
00241 #define PHY_HALFDUPLEX_10M ((uint16_t)0x0000U)
00242 #define PHY_AUTONEGOTIATION ((uint16_t)0x1000U)
00243 #define PHY_RESTART_AUTONEGOTIATION ((uint16_t)0x0200U)
00244 #define PHY_POWERDOWN ((uint16_t)0x0800U)
00245 #define PHY_ISOLATE ((uint16_t)0x0400U)
00246
00247 #define PHY_AUTONEGO_COMPLETE ((uint16_t)0x0020U)
00248 #define PHY_LINKED_STATUS ((uint16_t)0x0004U)
00249 #define PHY_JABBER_DETECTION ((uint16_t)0x0002U)
00250
00251 /* Section 4: Extended PHY Registers */
00252 #define PHY_SR ((uint16_t)0x10U)
00253
00254 #define PHY_SPEED_STATUS ((uint16_t)0x0002U)
00255 #define PHY_DUPLEX_STATUS ((uint16_t)0x0004U)
00256
00257 /* ##### SPI peripheral configuration ##### */

```

```
00258
00259 /* CRC FEATURE: Use to activate CRC feature inside HAL SPI Driver
00260  * Activated: CRC code is present inside driver
00261  * Deactivated: CRC code cleaned from driver
00262  */
00263
00264 #define USE_SPI_CRC                                0U
00265
00266 /* Includes ----- */
00270
00271 #ifdef HAL_RCC_MODULE_ENABLED
00272     #include "stm32f4xx_hal_rcc.h"
00273 #endif /* HAL_RCC_MODULE_ENABLED */
00274
00275 #ifdef HAL_GPIO_MODULE_ENABLED
00276     #include "stm32f4xx_hal_gpio.h"
00277 #endif /* HAL_GPIO_MODULE_ENABLED */
00278
00279 #ifdef HAL_EXTI_MODULE_ENABLED
00280     #include "stm32f4xx_hal_exti.h"
00281 #endif /* HAL_EXTI_MODULE_ENABLED */
00282
00283 #ifdef HAL_DMA_MODULE_ENABLED
00284     #include "stm32f4xx_hal_dma.h"
00285 #endif /* HAL_DMA_MODULE_ENABLED */
00286
00287 #ifdef HAL_CORTEX_MODULE_ENABLED
00288     #include "stm32f4xx_hal_cortex.h"
00289 #endif /* HAL_CORTEX_MODULE_ENABLED */
00290
00291 #ifdef HAL_ADC_MODULE_ENABLED
00292     #include "stm32f4xx_hal_adc.h"
00293 #endif /* HAL_ADC_MODULE_ENABLED */
00294
00295 #ifdef HAL_CAN_MODULE_ENABLED
00296     #include "stm32f4xx_hal_can.h"
00297 #endif /* HAL_CAN_MODULE_ENABLED */
00298
00299 #ifdef HAL_CAN_LEGACY_MODULE_ENABLED
00300     #include "stm32f4xx_hal_can_legacy.h"
00301 #endif /* HAL_CAN_LEGACY_MODULE_ENABLED */
00302
00303 #ifdef HAL_CRC_MODULE_ENABLED
00304     #include "stm32f4xx_hal_crc.h"
00305 #endif /* HAL_CRC_MODULE_ENABLED */
00306
00307 #ifdef HAL_Cryp_MODULE_ENABLED
00308     #include "stm32f4xx_hal_cryp.h"
00309 #endif /* HAL_Cryp_MODULE_ENABLED */
00310
00311 #ifdef HAL_DMA2D_MODULE_ENABLED
00312     #include "stm32f4xx_hal_dma2d.h"
00313 #endif /* HAL_DMA2D_MODULE_ENABLED */
00314
00315 #ifdef HAL_DAC_MODULE_ENABLED
00316     #include "stm32f4xx_hal_dac.h"
00317 #endif /* HAL_DAC_MODULE_ENABLED */
00318
00319 #ifdef HAL_DCMI_MODULE_ENABLED
00320     #include "stm32f4xx_hal_dcml.h"
00321 #endif /* HAL_DCMI_MODULE_ENABLED */
00322
00323 #ifdef HAL_ETH_MODULE_ENABLED
00324     #include "stm32f4xx_hal_eth.h"
00325 #endif /* HAL_ETH_MODULE_ENABLED */
00326
00327 #ifdef HAL_FLASH_MODULE_ENABLED
00328     #include "stm32f4xx_hal_flash.h"
00329 #endif /* HAL_FLASH_MODULE_ENABLED */
00330
00331 #ifdef HAL_SRAM_MODULE_ENABLED
00332     #include "stm32f4xx_hal_sram.h"
00333 #endif /* HAL_SRAM_MODULE_ENABLED */
00334
00335 #ifdef HAL_NOR_MODULE_ENABLED
00336     #include "stm32f4xx_hal_nor.h"
00337 #endif /* HAL_NOR_MODULE_ENABLED */
00338
00339 #ifdef HAL_NAND_MODULE_ENABLED
00340     #include "stm32f4xx_hal_nand.h"
00341 #endif /* HAL_NAND_MODULE_ENABLED */
00342
00343 #ifdef HAL_PCCARD_MODULE_ENABLED
00344     #include "stm32f4xx_hal_pccard.h"
00345 #endif /* HAL_PCCARD_MODULE_ENABLED */
00346
00347 #ifdef HAL_SDRAM_MODULE_ENABLED
```

```
00348 #include "stm32f4xx_hal_sdram.h"
00349 #endif /* HAL_SDRAM_MODULE_ENABLED */
00350
00351 #ifdef HAL_HASH_MODULE_ENABLED
00352 #include "stm32f4xx_hal_hash.h"
00353 #endif /* HAL_HASH_MODULE_ENABLED */
00354
00355 #ifdef HAL_I2C_MODULE_ENABLED
00356 #include "stm32f4xx_hal_i2c.h"
00357 #endif /* HAL_I2C_MODULE_ENABLED */
00358
00359 #ifdef HAL_SMBUS_MODULE_ENABLED
00360 #include "stm32f4xx_hal_smbus.h"
00361 #endif /* HAL_SMBUS_MODULE_ENABLED */
00362
00363 #ifdef HAL_I2S_MODULE_ENABLED
00364 #include "stm32f4xx_hal_i2s.h"
00365 #endif /* HAL_I2S_MODULE_ENABLED */
00366
00367 #ifdef HAL_IWDG_MODULE_ENABLED
00368 #include "stm32f4xx_hal_iwdg.h"
00369 #endif /* HAL_IWDG_MODULE_ENABLED */
00370
00371 #ifdef HAL_LTDC_MODULE_ENABLED
00372 #include "stm32f4xx_hal_ltdc.h"
00373 #endif /* HAL_LTDC_MODULE_ENABLED */
00374
00375 #ifdef HAL_PWR_MODULE_ENABLED
00376 #include "stm32f4xx_hal_pwr.h"
00377 #endif /* HAL_PWR_MODULE_ENABLED */
00378
00379 #ifdef HAL_RNG_MODULE_ENABLED
00380 #include "stm32f4xx_hal_rng.h"
00381 #endif /* HAL_RNG_MODULE_ENABLED */
00382
00383 #ifdef HAL_RTC_MODULE_ENABLED
00384 #include "stm32f4xx_hal_rtc.h"
00385 #endif /* HAL_RTC_MODULE_ENABLED */
00386
00387 #ifdef HAL_SAI_MODULE_ENABLED
00388 #include "stm32f4xx_hal_sai.h"
00389 #endif /* HAL_SAI_MODULE_ENABLED */
00390
00391 #ifdef HAL_SD_MODULE_ENABLED
00392 #include "stm32f4xx_hal_sd.h"
00393 #endif /* HAL_SD_MODULE_ENABLED */
00394
00395 #ifdef HAL_SPI_MODULE_ENABLED
00396 #include "stm32f4xx_hal_spi.h"
00397 #endif /* HAL_SPI_MODULE_ENABLED */
00398
00399 #ifdef HAL_TIM_MODULE_ENABLED
00400 #include "stm32f4xx_hal_tim.h"
00401 #endif /* HAL_TIM_MODULE_ENABLED */
00402
00403 #ifdef HAL_UART_MODULE_ENABLED
00404 #include "stm32f4xx_hal_uart.h"
00405 #endif /* HAL_UART_MODULE_ENABLED */
00406
00407 #ifdef HAL_USART_MODULE_ENABLED
00408 #include "stm32f4xx_hal_usart.h"
00409 #endif /* HAL_USART_MODULE_ENABLED */
00410
00411 #ifdef HAL_IRDA_MODULE_ENABLED
00412 #include "stm32f4xx_hal_irda.h"
00413 #endif /* HAL_IRDA_MODULE_ENABLED */
00414
00415 #ifdef HAL_SMARTCARD_MODULE_ENABLED
00416 #include "stm32f4xx_hal_smartcard.h"
00417 #endif /* HAL_SMARTCARD_MODULE_ENABLED */
00418
00419 #ifdef HAL_WWDG_MODULE_ENABLED
00420 #include "stm32f4xx_hal_wwdg.h"
00421 #endif /* HAL_WWDG_MODULE_ENABLED */
00422
00423 #ifdef HAL_PCD_MODULE_ENABLED
00424 #include "stm32f4xx_hal_pcd.h"
00425 #endif /* HAL_PCD_MODULE_ENABLED */
00426
00427 #ifdef HAL_HCD_MODULE_ENABLED
00428 #include "stm32f4xx_hal_hcd.h"
00429 #endif /* HAL_HCD_MODULE_ENABLED */
00430
00431 #ifdef HAL_DSI_MODULE_ENABLED
00432 #include "stm32f4xx_hal_dsi.h"
00433 #endif /* HAL_DSI_MODULE_ENABLED */
00434
```

```

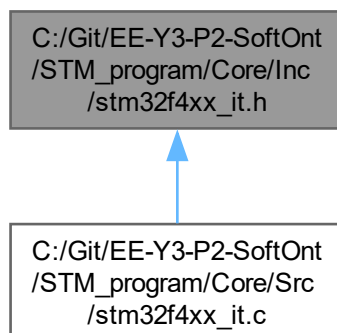
00435 #ifdef HAL_QSPI_MODULE_ENABLED
00436 #include "stm32f4xx_hal_qspi.h"
00437 #endif /* HAL_QSPI_MODULE_ENABLED */
00438
00439 #ifdef HAL_CEC_MODULE_ENABLED
00440 #include "stm32f4xx_hal_cec.h"
00441 #endif /* HAL_CEC_MODULE_ENABLED */
00442
00443 #ifdef HAL_FMPI2C_MODULE_ENABLED
00444 #include "stm32f4xx_hal_fmpi2c.h"
00445 #endif /* HAL_FMPI2C_MODULE_ENABLED */
00446
00447 #ifdef HAL_SPDIFRX_MODULE_ENABLED
00448 #include "stm32f4xx_hal_spdifrx.h"
00449 #endif /* HAL_SPDIFRX_MODULE_ENABLED */
00450
00451 #ifdef HAL_DFSDM_MODULE_ENABLED
00452 #include "stm32f4xx_hal_dfsdm.h"
00453 #endif /* HAL_DFSDM_MODULE_ENABLED */
00454
00455 #ifdef HAL_LPTIM_MODULE_ENABLED
00456 #include "stm32f4xx_hal_lptim.h"
00457 #endif /* HAL_LPTIM_MODULE_ENABLED */
00458
00459 #ifdef HAL_MMC_MODULE_ENABLED
00460 #include "stm32f4xx_hal_mmc.h"
00461 #endif /* HAL_MMC_MODULE_ENABLED */
00462
00463 /* Exported macro -----*/
00464 #ifdef USE_FULL_ASSERT
00473 #define assert_param(expr) ((expr) ? (void)0U : assert_failed((uint8_t *)__FILE__, __LINE__))
00474 /* Exported functions ----- */
00475 void assert_failed(uint8_t* file, uint32_t line);
00476 #else
00477 #define assert_param(expr) ((void)0U)
00478 #endif /* USE_FULL_ASSERT */
00479
00480 #ifdef __cplusplus
00481 }
00482 #endif
00483
00484 #endif /* __STM32F4xx_HAL_CONF_H */
00485
00486 /***** (C) COPYRIGHT STMicroelectronics *****END OF FILE*****/

```

6.11 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Inc/stm32f4xx_it.h File Reference

This file contains the headers of the interrupt handlers.

This graph shows which files directly or indirectly include this file:



Functions

- void **NMI_Handler** (void)
This function handles Non maskable interrupt.
- void **HardFault_Handler** (void)
This function handles Hard fault interrupt.
- void **MemManage_Handler** (void)
This function handles Memory management fault.
- void **BusFault_Handler** (void)
This function handles Pre-fetch fault, memory access fault.
- void **UsageFault_Handler** (void)
This function handles Undefined instruction or illegal state.
- void **SVC_Handler** (void)
This function handles System service call via SWI instruction.
- void **DebugMon_Handler** (void)
This function handles Debug monitor.
- void **PendSV_Handler** (void)
This function handles Pendable request for system service.
- void **SysTick_Handler** (void)
This function handles System tick timer.
- void **TIM2_IRQHandler** (void)
This function handles TIM2 global interrupt.
- void **USART2_IRQHandler** (void)
This function handles USART2 global interrupt.
- void **DMA2_Stream5_IRQHandler** (void)
This function handles DMA2 stream5 global interrupt.

6.11.1 Detailed Description

This file contains the headers of the interrupt handlers.

Attention

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6.12 stm32f4xx_it.h

[Go to the documentation of this file.](#)

```

00001 /* USER CODE BEGIN Header */
00019 /* USER CODE END Header */
00020
00021 /* Define to prevent recursive inclusion -----*/
00022 #ifndef __STM32F4xx_IT_H
00023 #define __STM32F4xx_IT_H
00024
00025 #ifdef __cplusplus
00026     extern "C" {
00027 #endif
00028
00029 /* Private includes -----*/
00030 /* USER CODE BEGIN Includes */
00031
00032 /* USER CODE END Includes */
00033
00034 /* Exported types -----*/
00035 /* USER CODE BEGIN ET */
00036
00037 /* USER CODE END ET */
00038
00039 /* Exported constants -----*/
00040 /* USER CODE BEGIN EC */
00041
00042 /* USER CODE END EC */
00043
00044 /* Exported macro -----*/
00045 /* USER CODE BEGIN EM */
00046
00047 /* USER CODE END EM */
00048
00049 /* Exported functions prototypes -----*/
00050 void NMI_Handler(void);
00051 void HardFault_Handler(void);
00052 void MemManage_Handler(void);
00053 void BusFault_Handler(void);
00054 void UsageFault_Handler(void);
00055 void SVC_Handler(void);
00056 void DebugMon_Handler(void);
00057 void PendSV_Handler(void);
00058 void SysTick_Handler(void);
00059 void TIM2_IRQHandler(void);
00060 void USART2_IRQHandler(void);
00061 void DMA2_Stream5_IRQHandler(void);
00062 /* USER CODE BEGIN EFP */
00063
00064 /* USER CODE END EFP */
00065
00066 #ifdef __cplusplus
00067 }
00068 #endif
00069
00070 #endif /* __STM32F4xx_IT_H */
00071
00072 /***** (C) COPYRIGHT STMicroelectronics *****/

```

6.13 tim.h

```

00001
00019 /* Define to prevent recursive inclusion -----*/
00020 #ifndef __tim_H
00021 #define __tim_H
00022 #ifdef __cplusplus
00023     extern "C" {
00024 #endif
00025
00026 /* Includes -----*/
00027 #include "main.h"
00028
00029 /* USER CODE BEGIN Includes */
00030
00031 /* USER CODE END Includes */
00032
00033 extern TIM_HandleTypeDef htim1;
00034 extern TIM_HandleTypeDef htim2;
00035
00036 /* USER CODE BEGIN Private defines */

```

```

00037
00038 /* USER CODE END Private defines */
00039
00040 void MX_TIM1_Init(void);
00041 void MX_TIM2_Init(void);
00042
00043 void HAL_TIM_MspPostInit(TIM_HandleTypeDef *htim);
00044
00045 /* USER CODE BEGIN Prototypes */
00046
00047 /* USER CODE END Prototypes */
00048
00049 #ifdef __cplusplus
00050 }
00051 #endif
00052 #endif /*__ tim_H */
00053
00057
00061
00062 /***** (C) COPYRIGHT STMicroelectronics *****/

```

6.14 usart.h

```

00001
00019 /* Define to prevent recursive inclusion -----*/
00020 #ifndef __usart_H
00021 #define __usart_H
00022 #ifdef __cplusplus
00023 extern "C" {
00024 #endif
00025
00026 /* Includes -----*/
00027 #include "main.h"
00028
00029 /* USER CODE BEGIN Includes */
00030
00031 /* USER CODE END Includes */
00032
00033 extern UART_HandleTypeDef huart2;
00034
00035 /* USER CODE BEGIN Private defines */
00036
00037 /* USER CODE END Private defines */
00038
00039 void MX_USART2_UART_Init(void);
00040
00041 /* USER CODE BEGIN Prototypes */
00042
00043 /* USER CODE END Prototypes */
00044
00045 #ifdef __cplusplus
00046 }
00047 #endif
00048 #endif /*__ usart_H */
00049
00053
00057
00058 /***** (C) COPYRIGHT STMicroelectronics *****/

```

6.15 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/API_func.c File Reference

: API functies om scherm aan te sturen via ub_lib.

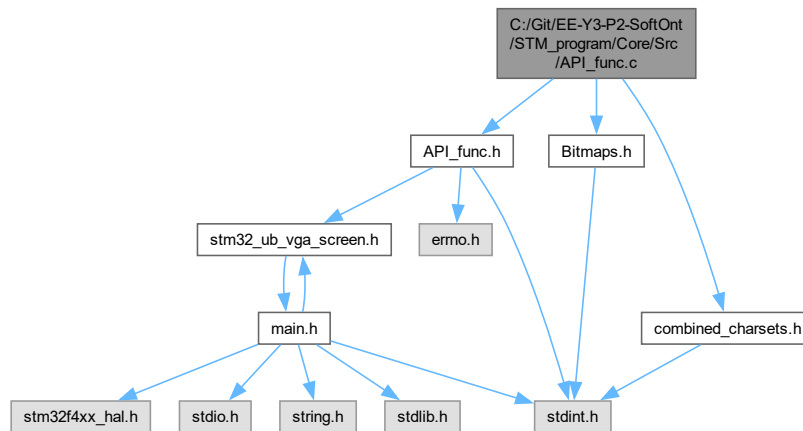
```

#include <API_func.h>
#include <Bitmaps.h>

```

```
#include <combined_charsets.h>
```

Include dependency graph for API_func.c:



Functions

- int [API_draw_text](#) (int x_lup, int y_lup, int color, char *text, char *fontname, int fontsize, int fontstyle, int text_length)
- int [API_draw_line](#) (int x_1, int y_1, int x_2, int y_2, int color, int weight, int reserved)
- int [API_draw_rectangle](#) (int x, int y, int width, int height, int color, int filled, int reserved, int reserved_2)
- int [API_draw_bitmap](#) (int x_lup, int y_lup, int bm_nr)
- int [API_clearscreen](#) (int color)
- int [API_wait](#) (int msec)
- int [API_repeat_commands](#) (int nr_previous_commands, int iterations, int reserved)
- int [API_draw_circle](#) (int x, int y, int radius, int color, int reserved)
- int [API_draw_figure](#) (int x_1, int y_1, int x_2, int y_2, int x_3, int y_3, int x_4, int y_4, int x_5, int y_5, int color, int reserved)

6.15.1 Detailed Description

: API functies om scherm aan te sturen via ub_lib.

6.15.2 Function Documentation

6.15.2.1 API_clearscreen()

```
int API_clearscreen (
    int color)
```

Maakt het scherm vrij en vult het met de opgegeven kleur.

Parameters

<i>color</i>	Kleurcode die gebruikt wordt om het volledige scherm mee te vullen.
--------------	---

Returns

Statuscode (0 = succes, anders fout).

6.15.2.2 API_draw_bitmap()

```
int API_draw_bitmap (
    int x_lup,
    int y_lup,
    int bm_nr)
```

Tekent een eerder geladen bitmap (resource) met gegeven nummer op de opgegeven linkerbovenhoek-coördinaten.

Parameters

<i>x_lup</i>	X-coördinaat van de linkerbovenhoek waar de bitmap geplaatst wordt.
<i>y_lup</i>	Y-coördinaat van de linkerbovenhoek waar de bitmap geplaatst wordt.
<i>bm_nr</i>	Bitmapnummer/ID dat verwijst naar een geladen bitmapresource.

Returns

Statuscode (0 = succes, anders fout).

6.15.2.3 API_draw_circle()

```
int API_draw_circle (
    int x,
    int y,
    int radius,
    int color,
    int reserved)
```

Tekent een cirkel met middelpunt en straal in de opgegeven kleur.

Parameters

<i>x</i>	X-coördinaat van het middelpunt.
<i>y</i>	Y-coördinaat van het middelpunt.
<i>radius</i>	Straal van de cirkel in pixels.
<i>color</i>	Kleurcode voor de cirkel (rand of vulling afhankelijk van implementatie).

<i>reserved</i>	Gereserveerd voor toekomstig gebruik; momenteel genegeerd.
-----------------	--

Returns

Statuscode (0 = succes, anders fout).

6.15.2.4 API_draw_figure()

```
int API_draw_figure (
    int x_1,
    int y_1,
    int x_2,
    int y_2,
    int x_3,
    int y_3,
    int x_4,
    int y_4,
    int x_5,
    int y_5,
    int color,
    int reserved)
```

Tekent een figuur gedefinieerd door maximaal vijf punten (veelhoek/figuur) met de opgegeven kleur.

Parameters

<i>x_1</i>	X-coördinaat van het eerste punt.
<i>y_1</i>	Y-coördinaat van het eerste punt.
<i>x_2</i>	X-coördinaat van het tweede punt.
<i>y_2</i>	Y-coördinaat van het tweede punt.
<i>x_3</i>	X-coördinaat van het derde punt.
<i>y_3</i>	Y-coördinaat van het derde punt.
<i>x_4</i>	X-coördinaat van het vierde punt.
<i>y_4</i>	Y-coördinaat van het vierde punt.
<i>x_5</i>	X-coördinaat van het vijfde punt.
<i>y_5</i>	Y-coördinaat van het vijfde punt.
<i>color</i>	Kleurcode voor de figuur (rand of vulling afhankelijk van implementatie).
<i>reserved</i>	Gereserveerd voor toekomstig gebruik; momenteel genegeerd.

Opmerking: punten kunnen in volgorde worden verbonden; implementatie kan bepalen of de figuur automatisch gesloten en/of gevuld wordt.

Returns

Statuscode (0 = succes, anders fout).

6.15.2.5 API_draw_line()

```
int API_draw_line (  
    int x_1,  
    int y_1,  
    int x_2,  
    int y_2,  
    int color,  
    int weight,  
    int reserved)
```

Tekent een rechte lijn tussen twee punten met aangegeven kleur en lijngewicht.

Parameters

<i>x_1</i>	X-coördinaat van het eerste eindpunt.
<i>y_1</i>	Y-coördinaat van het eerste eindpunt.
<i>x_2</i>	X-coördinaat van het tweede eindpunt.
<i>y_2</i>	Y-coördinaat van het tweede eindpunt.
<i>color</i>	Kleurcode voor de lijn.
<i>weight</i>	Dikte van de lijn (in pixels of units afhankelijk van implementatie).
<i>reserved</i>	Gereserveerd voor toekomstig gebruik; momenteel genegeerd.

Returns

Statuscode (0 = succes, anders fout).

6.15.2.6 API_draw_rectangle()

```
int API_draw_rectangle (  
    int x,  
    int y,  
    int width,  
    int height,  
    int color,  
    int filled,  
    int reserved,  
    int reserved_2)
```

Tekent een rechthoek op de gegeven positie met breedte, hoogte en kleur. Kan gevuld of slechts omtrek zijn.

Parameters

<i>x</i>	X-coördinaat van de linkerbovenhoek van de rechthoek.
<i>y</i>	Y-coördinaat van de linkerbovenhoek van de rechthoek.
<i>width</i>	Breedte van de rechthoek in pixels.
<i>height</i>	Hoogte van de rechthoek in pixels.
<i>color</i>	Kleurcode voor de rechthoek (vulling of rand afhankelijk van 'filled').
<i>filled</i>	Indien niet-nul: teken een gevulde rechthoek; indien nul: teken alleen de rand.
<i>reserved</i>	Gereserveerd voor toekomstig gebruik; momenteel genegeerd.
<i>reserved_2</i>	Extra gereserveerd parameter voor toekomstig gebruik; momenteel genegeerd.

Returns

Statuscode (0 = succes, anders fout).

6.15.2.7 API_draw_text()

```
int API_draw_text (
    int x_lup,
    int y_lup,
    int color,
    char * text,
    char * fontname,
    int fontsize,
    int fontstyle,
    int reserved)
```

Tekent input string op opgegeven linkerbovenhoek-coördinaten met een gegeven kleur, font en stijl.

Parameters

<i>x_lup</i>	X-coördinaat van de linkerbovenhoek waar de tekst begint.
<i>y_lup</i>	Y-coördinaat van de linkerbovenhoek waar de tekst begint.
<i>color</i>	Kleurcode die gebruikt wordt om de tekst te tekenen.
<i>text</i>	Pointer naar de NUL-terminerende tekenreeks die getekend moet worden.
<i>fontname</i>	Naam van het lettertype dat gebruikt moet worden (bijv. "Arial").
<i>fontsize</i>	Grootte van het lettertype in punten of pixels (implementatieafhankelijk).
<i>fontstyle</i>	Stijlflags voor het lettertype (bijv. vet, cursief; implementatieafhankelijk).
<i>reserved</i>	Gereserveerd voor toekomstig gebruik; momenteel genegeerd.

Returns

Statuscode (0 = succes, anders fout).

6.15.2.8 API_repeat_commands()

```
int API_repeat_commands (
    int nr_previous_commands,
    int iterations,
    int reserved)
```

Herhaalt een reeks eerder uitgevoerde tekencommando's een aantal keren.

Parameters

<i>nr_previous_commands</i>	Aantal voorgaande commando's die herhaald moeten worden.
<i>iterations</i>	Hoe vaak de reeks herhaald moet worden.
<i>reserved</i>	Gereserveerd voor toekomstig gebruik; momenteel genegeerd.

Returns

Statuscode (0 = succes, anders fout).

6.15.2.9 API_wait()

```
int API_wait (
    int msec)
```

Pauzeert de uitvoering gedurende het opgegeven aantal milliseconden.

Parameters

<i>msec</i>	Aantal milliseconden om te wachten/sleepen.
-------------	---

Returns

Statuscode (0 = succes, anders fout).

6.16 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/Logic.c File Reference

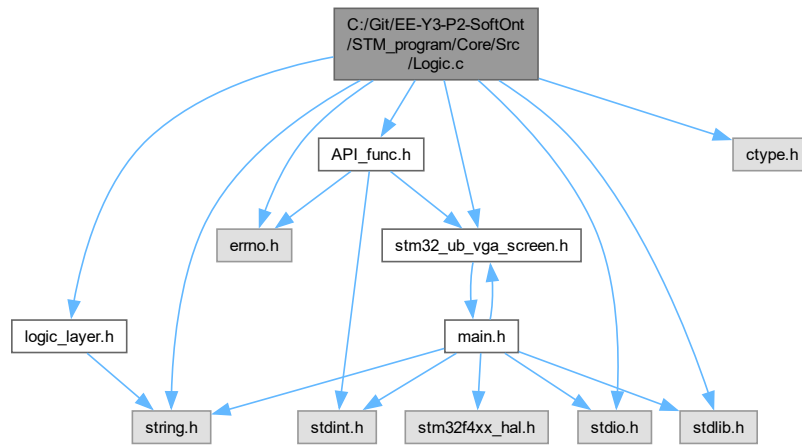
: Logic layer implementatie om uart commando's te parsen en uit te voeren via API_func.

```
#include "logic_layer.h"
#include "API_func.h"
#include "stm32_ub_vga_screen.h"
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
```



```
#include <errno.h>
```

Include dependency graph for Logic.c:



Classes

- struct [ColorMap](#)
- struct [ParsedArgs](#)

Macros

- #define **MAX_ARGS** 12
- #define **MAX_TOKEN_LEN** 50
- #define **MAX_LINE_LEN** 256
- #define **FONT_NORMAAL** 0
- #define **FONT_VET** 1
- #define **FONT_CURSIEF** 2
- #define **COLOR_TABLE_SIZE** (sizeof(COLOR_TABLE) / sizeof([ColorMap](#)))

Functions

- int [parse_color](#) (char *color_str)
- int [parse_font_style](#) (char *style_str)
- int [parse_script_line](#) (char *line, struct [LogicInterface](#) *cmd)
- int [execute_command](#) (struct [LogicInterface](#) *cmd)

6.16.1 Detailed Description

: Logic layer implementatie om uart commando's te parsen en uit te voeren via API_func.

6.16.2 Function Documentation

6.16.2.1 execute_command()

```
int execute_command (
    struct LogicInterface * cmd)
```

Executeer een commando

Parameters

<i>cmd</i>	In parameter: het commando dat uitgevoerd moet worden
<i>parsed</i>	Geparste argumenten
<i>result</i>	Uit parameter: de return waarde van de API functie

Returns

0 bij succes, errno waarde bij fout

6.16.2.2 parse_color()

```
int parse_color (
    char * color_str)
```

Converteer kleurnaam naar kleurcode

Parameters

<i>color_str</i>	Kleurnaam als string
------------------	----------------------

Returns

Kleurcode of VGA_COL_BLACK als niet gevonden

6.16.2.3 parse_font_style()

```
int parse_font_style (
    char * style_str)
```

Converteer font style naam naar code

Parameters

<i>style_str</i>	Font style naam als string
------------------	----------------------------

Returns

Font style code of FONT_NORMAAL als niet gevonden

6.16.2.4 parse_script_line()

```
int parse_script_line (
    char * line,
    struct LogicInterface * cmd)
```

Parse een script regel naar `LogicInterface` struct

Parameters

<i>line</i>	In parameter: de regel die geanalyseerd wordt
<i>cmd</i>	Out parameter: de struct met de geanalyseerde commando's

Returns

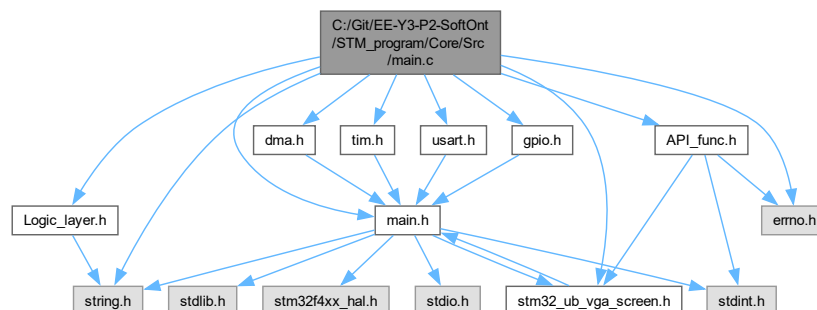
0 bij succes, errno waarde bij fout

6.17 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/main.c File Reference

: Main program body

```
#include "main.h"
#include "dma.h"
#include "tim.h"
#include "usart.h"
#include "gpio.h"
#include "Logic_layer.h"
#include "API_func.h"
#include "stm32_ub_vga_screen.h"
#include <string.h>
#include <errno.h>
```

Include dependency graph for main.c:



Macros

- `#define USART_PRINTF int fputc(int ch, FILE *f)`

Functions

- void [SystemClock_Config](#) (void)
System Clock Configuration.
- int [main](#) (void)
The application entry point.
- uint16_t [UART_ReadStringEcho](#) (UART_HandleTypeDef *huart, char *buffer, uint16_t maxLen)
Reads a string from UART and sends it back.
- void [Error_Handler](#) (void)
This function is executed in case of error occurrence.

Variables

- uint8_t **rx**
- UART_HandleTypeDef [huart2](#)
- [input_vars](#) **input**
- volatile char **container** [1024]
- volatile int **temp**
- volatile int **key**
- uint8_t **rxChar**
- char **uartBuffer** [128]
- uint16_t **uartIndex** = 0
- [USART_PRINTF](#)
- return **ch**

6.17.1 Detailed Description

: Main program body

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6.17.2 Function Documentation

6.17.2.1 Error_Handler()

```
void Error_Handler (  
    void )
```

This function is executed in case of error occurrence.

Return values

<i>None</i>	
-------------	--

6.17.2.2 main()

```
int main (  
    void )
```

The application entry point.

Return values

<i>int</i>	
------------	--

6.17.2.3 SystemClock_Config()

```
void SystemClock_Config (  
    void )
```

System Clock Configuration.

Return values

<i>None</i>	
-------------	--

Configure the main internal regulator output voltage

Initializes the RCC Oscillators according to the specified parameters in the RCC_OscInitTypeDef structure.

Initializes the CPU, AHB and APB buses clocks

6.17.2.4 UART_ReadStringEcho()

```
uint16_t UART_ReadStringEcho (
    UART_HandleTypeDef * huart,
    char * buffer,
    uint16_t maxLen)
```

Reads a string from UART and sends it back.

Parameters

<i>huart</i>	UART handle
<i>buffer</i>	Pointer to buffer to store received string
<i>maxLen</i>	Maximum length of string to receive

Return values

<i>Number</i>	of characters received
---------------	------------------------

6.17.3 Variable Documentation

6.17.3.1 huart2

```
UART_HandleTypeDef huart2 [extern]
```

File Name : USART.c Description : This file provides code for the configuration of the USART instances.

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6.17.3.2 USART_PRINTF

```
USART_PRINTF
```

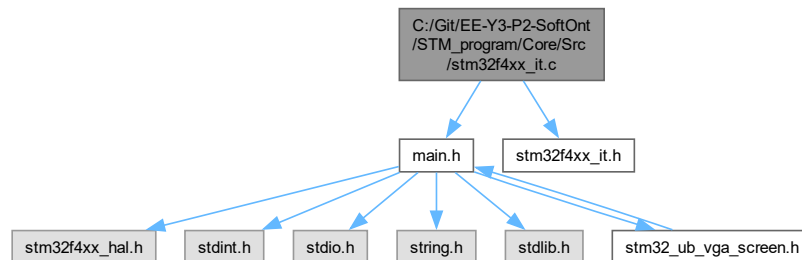
Initial value:

```
{
    HAL_UART_Transmit(&huart2, (uint8_t *)&ch, 1, 0xFFFF)
```

6.18 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/stm32f4xx_it.c File Reference

Interrupt Service Routines.

```
#include "main.h"
#include "stm32f4xx_it.h"
Include dependency graph for stm32f4xx_it.c:
```



Functions

- void **NMI_Handler** (void)
This function handles Non maskable interrupt.
- void **HardFault_Handler** (void)
This function handles Hard fault interrupt.
- void **MemManage_Handler** (void)
This function handles Memory management fault.
- void **BusFault_Handler** (void)
This function handles Pre-fetch fault, memory access fault.
- void **UsageFault_Handler** (void)
This function handles Undefined instruction or illegal state.
- void **SVC_Handler** (void)
This function handles System service call via SWI instruction.
- void **DebugMon_Handler** (void)
This function handles Debug monitor.
- void **PendSV_Handler** (void)
This function handles Pendable request for system service.
- void **SysTick_Handler** (void)
This function handles System tick timer.
- void **TIM2_IRQHandler** (void)
This function handles TIM2 global interrupt.
- void **USART2_IRQHandler** (void)
This function handles USART2 global interrupt.
- void **DMA2_Stream5_IRQHandler** (void)
This function handles DMA2 stream5 global interrupt.

Variables

- DMA_HandleTypeDef **hdma_tim1_up**
- TIM_HandleTypeDef **htim2**
- UART_HandleTypeDef [huart2](#)
- TIM_HandleTypeDef [htim1](#)

6.18.1 Detailed Description

Interrupt Service Routines.

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6.18.2 Variable Documentation

6.18.2.1 htim1

```
TIM_HandleTypeDef htim1 [extern]
```

File Name : TIM.c Description : This file provides code for the configuration of the TIM instances.

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6.18.2.2 huart2

UART_HandleTypeDef huart2 [extern]

File Name : USART.c Description : This file provides code for the configuration of the USART instances.

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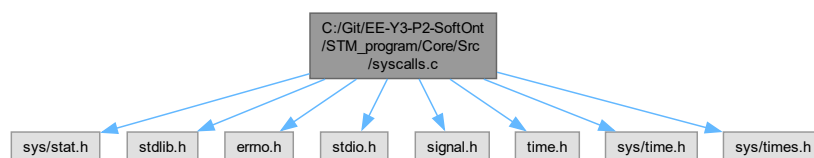
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6.19 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/syscalls.c File Reference

STM32CubeIDE Minimal System calls file.

```
#include <sys/stat.h>
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
#include <signal.h>
#include <time.h>
#include <sys/time.h>
#include <sys/times.h>
```

Include dependency graph for syscalls.c:



Functions

- int **__io_putchar** (int ch) **__attribute__((weak))**
- int **__io_getchar** (void)
- void **initialise_monitor_handles** ()
- int **__getpid** (void)
- int **__kill** (int pid, int sig)
- void **__exit** (int status)
- **__attribute__((weak))**
- int **__close** (int file)
- int **__fstat** (int file, struct stat *st)
- int **__isatty** (int file)
- int **__lseek** (int file, int ptr, int dir)
- int **__open** (char *path, int flags,...)
- int **__wait** (int *status)
- int **__unlink** (char *name)
- int **__times** (struct tms *buf)
- int **__stat** (char *file, struct stat *st)
- int **__link** (char *old, char *new)
- int **__fork** (void)
- int **__execve** (char *name, char **argv, char **env)

Variables

- int **errno**
- char ** **environ** = __env

6.19.1 Detailed Description

STM32CubeIDE Minimal System calls file.

Author

Auto-generated by STM32CubeIDE

For more information about which c-functions
need which of these lowlevel functions
please consult the Newlib libc-manual

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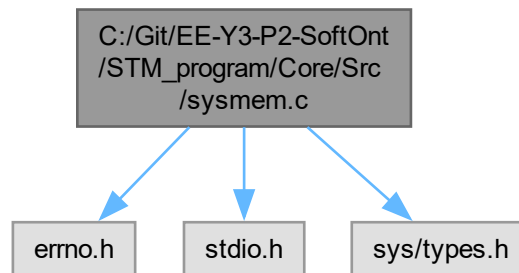
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6.20 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/sysmem.c File Reference

STM32CubeIDE Minimal System Memory calls file.

```
#include <errno.h>
#include <stdio.h>
#include <sys/types.h>
Include dependency graph for sysmem.c:
```



Functions

- register char *stack_ptr **asm** ("sp")
- caddr_t [_sbrk](#) (int incr)

Variables

- int **errno**

6.20.1 Detailed Description

STM32CubeIDE Minimal System Memory calls file.

Author

Auto-generated by STM32CubeIDE

For more information about which c-functions
need which of these lowlevel functions
please consult the Newlib libc-manual

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6.20.2 Function Documentation

6.20.2.1 `_sbrk()`

```
caddr_t _sbrk (  
    int incr)
```

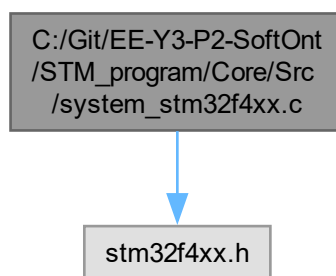
`_sbrk` Increase program data space. Malloc and related functions depend on this

6.21 C:/Git/EE-Y3-P2-SoftOnt/STM_program/Core/Src/system_↔ stm32f4xx.c File Reference

CMSIS Cortex-M4 Device Peripheral Access Layer System Source File.

```
#include "stm32f4xx.h"
```

Include dependency graph for `system_stm32f4xx.c`:



Macros

- `#define HSE_VALUE ((uint32_t)25000000)`
- `#define HSI_VALUE ((uint32_t)16000000)`
- `#define VECT_TAB_OFFSET 0x00`

Functions

- void [SystemInit](#) (void)
Setup the microcontroller system Initialize the FPU setting, vector table location and External memory configuration.
- void [SystemCoreClockUpdate](#) (void)
Update SystemCoreClock variable according to Clock Register Values. The SystemCoreClock variable contains the core clock (HCLK), it can be used by the user application to setup the SysTick timer or configure other parameters.

Variables

- uint32_t **SystemCoreClock** = 16000000
- const uint8_t **AHBPrescTable** [16] = {0, 0, 0, 0, 0, 0, 0, 0, 1, 2, 3, 4, 6, 7, 8, 9}
- const uint8_t **APBPrescTable** [8] = {0, 0, 0, 0, 1, 2, 3, 4}

6.21.1 Detailed Description

CMSIS Cortex-M4 Device Peripheral Access Layer System Source File.

Author

MCD Application Team

This file provides two functions and one global variable to be called from user application:

- [SystemInit\(\)](#): This function is called at startup just after reset and before branch to main program. This call is made inside the "startup_stm32f4xx.s" file.
- SystemCoreClock variable: Contains the core clock (HCLK), it can be used by the user application to setup the SysTick timer or configure other parameters.
- [SystemCoreClockUpdate\(\)](#): Updates the variable SystemCoreClock and must be called whenever the core clock is changed during program execution.

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6.22 stm32_ub_vga_screen.h

```

00001 //-----
00002 // File      : stm32_ub_vga_screen.h
00003 //-----
00004
00005 //-----
00006 #ifndef __STM32F4_UB_VGA_SCREEN_H
00007 #define __STM32F4_UB_VGA_SCREEN_H
00008
00009
00010 //-----
00011 // Includes
00012 //-----
00013 #include "main.h"
00014
00015
00016
00017 //-----
00018 // color designation
00019 // 8bit color (R3G3B2)
00020 // Red   (3bit) -> Bit7-Bit5
00021 // Green (3bit) -> Bit4-Bit2
00022 // Blue  (2bit) -> Bit1-Bit0
00023 //-----
00024 #define VGA_COL_BLACK      0b00000000
00025 #define VGA_COL_BLUE      0b00000011
00026 #define VGA_COL_LIGHTBLUE 0b00011111
00027 #define VGA_COL_GREEN      0b00011100
00028 #define VGA_COL_LIGHTGREEN 0b01111100
00029 #define VGA_COL_CYAN       0b00011011
00030 #define VGA_COL_LIGHTCYAN  0b00011111
00031 #define VGA_COL_RED        0b11100000
00032 #define VGA_COL_LIGHTRED   0b11101010
00033 #define VGA_COL_MAGENTA    0b11101110
00034 #define VGA_COL_LIGHTMAGENTA 0b11100011
00035 #define VGA_COL_BROWN      0b01101000
00036 #define VGA_COL_YELLOW     0b11111100
00037 #define VGA_COL_GRAY       0b10010010
00038 #define VGA_COL_WHITE      0b11111111
00039
00040
00041
00042 //-----
00043 // define the VGA_display
00044 //-----
00045 #define VGA_DISPLAY_X      320
00046 #define VGA_DISPLAY_Y      240
00047
00048
00049
00050 //-----
00051 // VGA Structure
00052 //-----
00053 typedef struct {
00054     uint16_t hsync_cnt;    // counter
00055     uint32_t start_adr;    // start_adres
00056     uint32_t dma2_cr_reg;  // Register constant CR-Register
00057 }VGA_t;
00058 extern VGA_t VGA;
00059
00060
00061
00062 //-----
00063 // Display RAM
00064 //-----
00065 extern uint8_t VGA_RAM1[(VGA_DISPLAY_X+1)*VGA_DISPLAY_Y];
00066
00067
00068
00069 //-----
00070 // Timer-1
00071 // Function = Pixelclock (Speed for DMA Transfer)
00072 //
00073 // basefreq = 2*APB2 (APB2=84MHz) => TIM_CLK=168MHz
00074 // Frq      = 168MHz/1/12 = 14MHz
00075 //
00076 //-----
00077 #define VGA_TIM1_PERIODE      11
00078 #define VGA_TIM1_PRESCALE     0
00079
00080
00081
00082 //-----
00083 // Timer-2
00084 // Function = CH4 : HSync-Signal on PB11

```

```

00085 //          CH3 : Trigger point for DMA start
00086 //
00087 // basefreq = 2*APB1 (APB1=48MHz) => TIM_CLK=84MHz
00088 // Frq      = 84MHz/1/2668 = 31,48kHz => T = 31,76us
00089 // 1TIC     = 11,90ns
00090 //
00091 //-----
00092 #define  VGA_TIM2_HSYNC_PERIODE    2667
00093 #define  VGA_TIM2_HSYNC_PRESCALE   0
00094
00095 #define  VGA_TIM2_HSYNC_IMP        320 // HSync-length (3,81us)
00096 #define  VGA_TIM2_HTRIGGER_START   480 // HSync+BackPorch (5,71us)
00097 #define  VGA_TIM2_DMA_DELAY        37 // ease the delay when DMA START (Optimization = none)
00098 // #define  VGA_TIM2_DMA_DELAY      30 // ease the delay when DMA START (Optimization = -O1)
00099
00100
00101 //-----
00102 // VSync-Signal
00103 // Trigger = Timer2 Update (f=31,48kHz => T = 31,76us)
00104 // 1TIC    = 31,76us
00105 //-----
00106 #define  VGA_VSYNC_PERIODE        525
00107 #define  VGA_VSYNC_IMP            2
00108 #define  VGA_VSYNC_BILD_START     36
00109 #define  VGA_VSYNC_BILD_STOP      514 // (16,38ms)
00110
00111
00112 //-----
00113 // Address from PORTE (Reg ODR) callback DMA
00114 // (see Page 53+204 of the Manual)
00115 //
00116 // Data-Bit0 => PE8
00117 // Data-Bit7 => PE15
00118 //-----
00119 #define  VGA_GPIOE_BASE_ADR        ((uint32_t)0x40021000) // ADR from Port-E
00120 #define  VGA_GPIO_ODR_OFFSET       ((uint32_t)0x00000014) // ADR from Register ODR
00121 #define  VGA_GPIO_BYTE_OFFSET      ((uint32_t)0x00000001) // Data for 8bit
00122 #define  VGA_GPIOE_ODR_ADDRESS     (VGA_GPIOE_BASE_ADR | VGA_GPIO_ODR_OFFSET | VGA_GPIO_BYTE_OFFSET)
00123
00124 //-----
00125 // Define for black on PE8 - PE15
00126 //-----
00127 #define  VGA_GPIO_HINIBBLE         ((uint16_t)0xFF00) // GPIO_Pin_8 to GPIO_Pin_15
00128
00129 //-----
00130 // Global Function call
00131 //-----
00132 void UB_VGA_Screen_Init(void);
00133 void UB_VGA_FillScreen(uint8_t color);
00134 void UB_VGA_SetPixel(uint16_t xp, uint16_t yp, uint8_t color);
00135
00136 //-----
00137 #endif // __STM32F4_UB_VGA_SCREEN_H

```


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