Wim Huiskamp (/users/wim/) / OS 2 📦 MCP_test (/users/wim/code/MCP_test/)

Example of how to use the library for the MCP23017 16 bit expander port for I2C.

🖧 Dependencies: (/users/wim/code/MCP_test/dependencies) ⚙ mbed (/users/mbed_official/code/mbed/) ⚙ ()

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Repository toolbox

Import into Compiler (https://os.mbed

Export to desktop ID

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Revision

Files at this revision (/users/wim/code/MCP_test//file/88d87b1c1f8b)

📄 API Documentation at this revision (/users/wim/code/MCP_test//docs/88d87b1c1f8b)

0:88d87b1c1f8b, committed 2010-12-18

Comitter:	wim
Date:	Sat Dec 18 19:44:49 2010 +0000
Commit message:	Initial version

Repository details

Type:	📦 Program
Version:	Mbed OS 2
Created:	18 Dec 2010 (18.
Imports:	⬇ 210 (/users/wi
Forks:	⑂ 1 (/users/wim/
Commits:	➲ 1 (shortlog)
Dependents:	🖧 0 (/users/wim/code
Dependencies:	🖧 2 (/users/wim/code
Followers:	⊕ 4 (/users/wim/code

Changed in this revision

MCP23017.lib (/users/wim/code/MCP_test//file/88d87b1c1f8b/MCP23017.lib)	Show annotated file (/users/wim/code/MCP_test//annotate/88d87b1c1f8b/MCP23017.lib) Show diff for this revision (/users/wim/code/MCP_test//diff/88d87b1c1f8b/MCP23017.lib) 🕲 Revisions of this file (/users/wim/code/MCP_test//log/88d87b1c1f8b/MCP23017.lib)
main.cpp (/users/wim/code/MCP_test//file/88d87b1c1f8b/main.cpp)	Show annotated file (/users/wim/code/MCP_test//annotate/88d87b1c1f8b/main.cpp) Show diff for this revision (/users/wim/code/MCP_test//diff/88d87b1c1f8b/main.cpp) 🕲 Revisions of this file (/users/wim/code/MCP_test//log/88d87b1c1f8b/main.cpp)
mbed.bld (/users/wim/code/MCP_test//file/88d87b1c1f8b/mbed.bld)	Show annotated file (/users/wim/code/MCP_test//annotate/88d87b1c1f8b/mbed.bld) Show diff for this revision (/users/wim/code/MCP_test//diff/88d87b1c1f8b/mbed.bld) 🕲 Revisions of this file (/users/wim/code/MCP_test//log/88d87b1c1f8b/mbed.bld)

Components

MCP2317 I2C 16 bit I/O expander (/components/MCP2317-I2C-16-bit-IO-expander/)

1 http://mbed.org/users/wim/code/MCP23017/#5696b886a895_(http://mbed.org/users/wim/code/MCP23017/#5696b886a895)

```
 1 #include "mbed.h"
 2 #include "MCP23017.h"
 3
 4 DigitalOut myled1(LED1);
 5 DigitalOut myled2(LED2);
 6
 7 Serial pc(USBTX, USBRX);
 8 I2C i2c(p9, p10);
 9
10 MCP23017 mcp23017 = MCP23017(i2c, 0x40);
11
12 int main() {
13
14     pc.printf("Hello World\n");
15
16     // I2C init
17     i2c.frequency(100000);
18
19     // Port A is databus - Output
20     mcp23017.direction(PORT_A, PORT_DIR_OUT);
21     // Port B is controlbus - Output
22     mcp23017.direction(PORT_B, PORT_DIR_OUT);
23
24     myled2 = 1;
25     pc.printf("MPC Init done\n");
26
27     while(1) {
28         myled1 = 1;
29         mcp23017.write(PORT_A, 0xFF);
30         mcp23017.write(PORT_B, 0xFF);
31         wait(0.2);
32
33         myled1 = 0;
34         mcp23017.write(PORT_A, 0x00);
35         mcp23017.write(PORT_B, 0x00);
36         wait(0.2);
37         pc.printf("*");
38     }
39 }
```

1 http://mbed.org/users/mbed_official/code/mbed/builds/e2ac27c8e93e (http://mbed.org/users/mbed_official/code/m