

Dwarf Boards

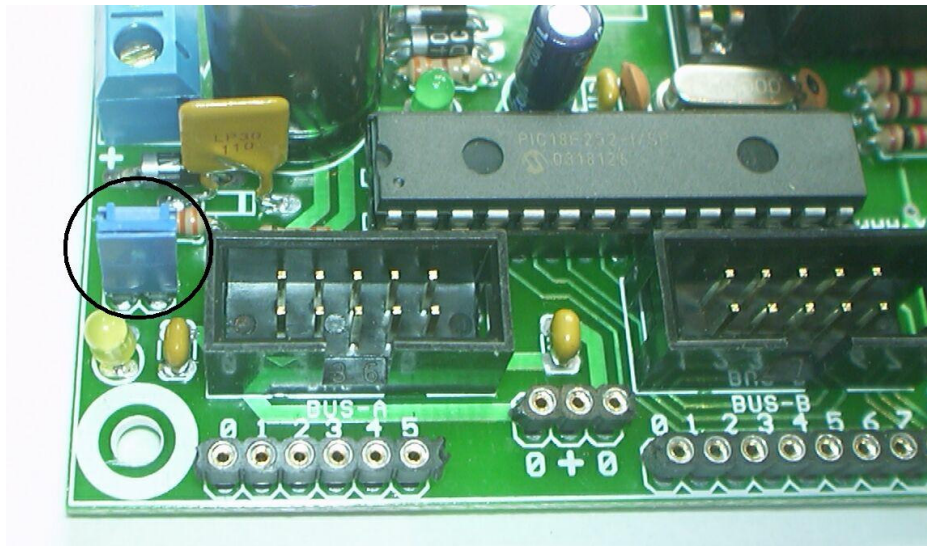
DN003 - Blink a LED in Jal on DB016

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version 1.0

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Introduction

This note shows how to blink a LED on a DB016. The code uses `bus_a_pin_0`, which can be connected to the on-board yellow LED by placing a jumper, as shown below. Alternatively an external LED can be connected.



Code

```
-- DN003.jal : blink a led on bus_a_pin_0 at 1 Hz
-- hardware: db016 + LED on bus_a_pin_0

include DB016_18F252_PLL_40
include jdelay

bus_a_digital
bus_a_pin_0_direction = output

forever loop
  bus_a_pin_0 = true
  delay_500ms
  bus_a_pin_0 = false
  delay_500ms
end loop
```

The code is very simple. The first include is specific for the board, microcontroller and frequency used, it establishes among other things the I/O declarations that are used. The next include establishes the delay declarations used.

Next `bus_a` is set to digital mode and `bus_a_pin_0` is set as output.

The main loop just makes the pin high, waits half a second, makes the pin low, and again waits half a second. Repeat ad infinitum.

Change notes

the latest version of this document can be downloaded from <http://www.voti.nl/dwarf>

version	date	notes
1.0	2003-11-04	first version