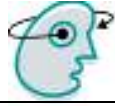
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B2 Development Kit

User's guide



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“B2” Development Kit User’s Guide

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1 - Introduction

IMPORTANT! Starting from B2 Development Kit (B2DK for short) version 2.0.0, the developing environment is based on cygwin 1.3.22-1 or newer. For technical reasons, these new cygwin releases require the use of OCDLibRemote to drive the Wiggler dongle. This new debugging system revealed to be so slow that is practically unusable. Thus it has been decided to discontinue the Wiggler support.

So users who are already working with previous releases of the B2DK can opt for one of the following choices:

- Users who don't want to lose the Wiggler support are suggested to keep working with the old environment. Nevertheless they can replace the repository with the new one (see section 3.1).
- Users who don't care about losing the Wiggler support are suggested to replace the old B2DK with the new one (see section 3.1).

Users who never worked with a previous B2DK release can opt for one of the following choices instead:

- Users who want to work with the Wiggler are suggested to install the B2DK 1.5.6 (this can be found in the directory B2DK-1.5.6 in the CDROM); once the installation of B2DK 1.5.6 has been completed, they can replace the repository with the new one (see section 3.1).
- Users who don't care about the Wiggler support are obviously suggested to install the new B2DK.

This document explains how to quickly start to work with the B2 Development Kit. It describes its components and how to make them to work together. The documents assumes that the developer's machine (the host in this context) is equipped with Microsoft Windows[®] operating system¹.

2 - Overview

The developing environment for B2 is composed by the following parts:

- Cygwin – an Unix-shell emulator for Windows platforms
- eCos repository – the archive of source files
- ConfigurationTool – a graphical application used to configure and to manage the build process
- GNU toolchain – the GCC cross-compiler and the Binary Utilities (binutils) for ARM architecture (included in the eCos installation package)
- B2 Uploader – a simple open source Windows application to store firmware onto the target
- B2W@WBootFlasher – a simple utility application to restore bootloader firmware in Flash memory
- Example code
- Documentation.

¹ The process has been tested under the following versions of Windows: 2000 Professional and XP Professional.