Command Line of Dediware

Version 1.2

DediProg

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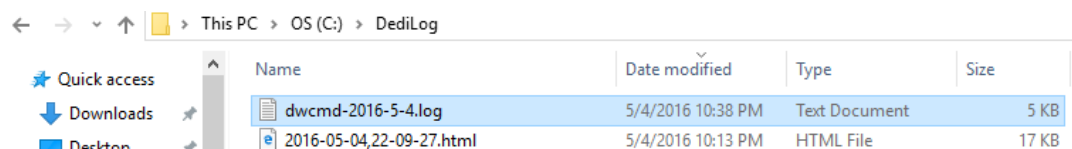
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I. Introduction

The command line has been designed to control DediProg programmer from the other software, which will be a convenient feature for production. (For example: Automatically program Flash or MCU via the automatic test equipment after the hardware has been checked).

Command result "dwcmd-YYYY-M-D.log" file will be automatically saved to the following folder:
C:\DediLog

Name	Date modified	Type	Size
dwcmd-2016-5-4.log	5/4/2016 10:38 PM	Text Document	5 KB
2016-05-04,22-09-27.html	5/4/2016 10:13 PM	HTML File	17 KB

This PC > OS (C:) > DediLog
Quick access, Downloads, Desktop
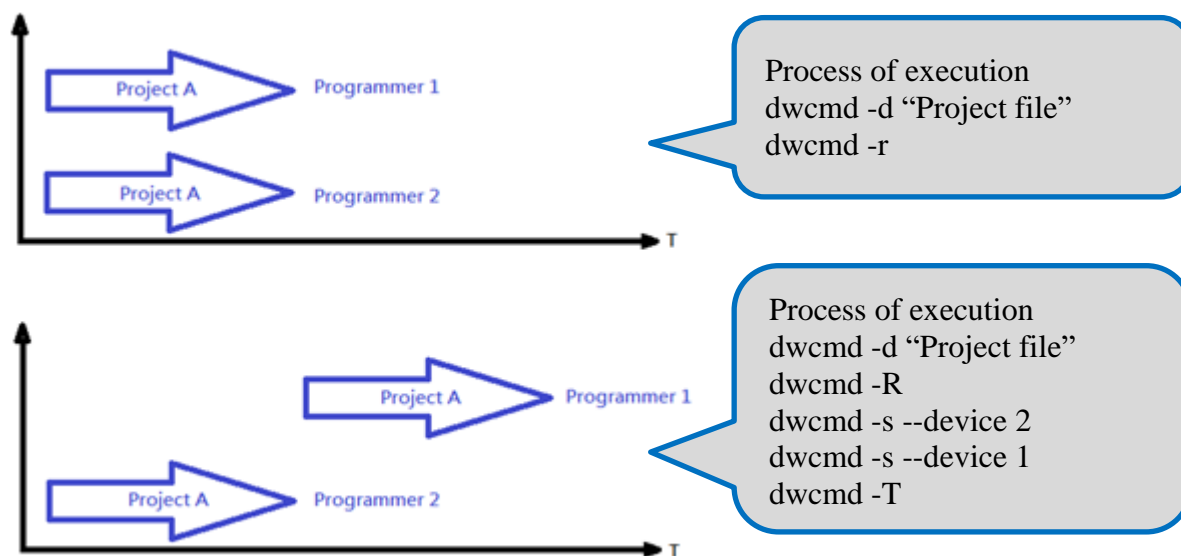
II. Conditions and Limitations

2.1 Programmer

Command line only supported on StarProg series programmer, including StarProg-F/U/ATE.

2.2 IC Type and Methods

✓ **Run Project from SD-card**: This method does not support eMMC, NAND and Parallel NOR Flash.
Execute the command line " –download-prj" to download the project file to the programmer's embedded SD card, and then run the project via the command line(--run-prj). This method supports programming the **same project** on **multiple programmers**.

This method supports running Projects at the same time or independently.

Project A → Programmer 1
Project A → Programmer 2

> Process of execution
> dwcmd -d "Project file"
> dwcmd -r

Project A → Programmer 1
Project A → Programmer 2

> Process of execution
> dwcmd -d "Project file"
> dwcmd -R
> dwcmd -s --device 2
> dwcmd -s --device 1
> dwcmd -T

✓ **Run Project in USB Mode**: This method supports All IC types.
Execute the command line "—usb-prj" to run the project via USB directly. This method only supports **one** programmer.

2.3 Limitations

◆ Not able to program different projects at the same time (Via SD card).

◆ Not able to support different programmers on the same computer.

◆ Not able to support ProgMaster programmer.

III. How to start

Since command line only supports Project file, so please create a Project file (*dprj) in Dediware before executing the command line. Windows dos command line software is executed by the file "dwcmd.exe." There are three different ways to run the dos command line.

1. Double click the "dwcmd" icon on your desktop, type in dwcmd and press enter.

2. Change your dos directory to the same location where "dwcmd.exe" is located. c:\Program Files (x86)\Dediprog\Client

IV. Command List

DediWare_CLI

```
DWCmd 3.12.67 Engine Version:
Last Built on May  6 2019

Basic Usages:
dwcmd -d xxx
dwcmd -r
dwcmd --usb-prj xxx
Basic Switches:
(Please keep space between the switches and parameters.
E.g. 'dwcmd -u bio.dprj')
 -? [ --help ]            show this help message
 -d [ --download-prj ] arg  download project file to StarProg embedded SD card.
                          note: download project can NOT work with eMMC, NAND and parallel NOR flash
 -r [ --run-prj ]         run the project file which exist in StarProg embedded SD card.
                          note: run project can NOT work with eMMC, NAND and parallel NOR flash
 -R [ --run-prj-only ]    run the project file which exist in StarProg embedded SD card without start project.
                          note: run project can NOT work with eMMC, NAND and parallel NOR flash
 -s [ --start-prj ]       start the project which has been run.
 -T [ --stop-prj ]        stop current project.
 -f [ --finfo ] arg       display the project file information
 -b [--blank]             blank check
 -e [--erase]             erase entire chip
 -p [--program] arg       program chip without erase
                          e.g. -p "file1.bin | file2.bin | ..." separate files by '|'
 --type arg               specify a type to override auto detection
                          e.g. --type "W25N01GVSFxx[SOP16 300mil]-Winbond"
 --detect-spi-nand        Auto detecting spi nand.
 --usb-prj  arg           execute project file directly, work with on programmer only and work with all chips
                          (Default programmer is connected to USB0)

Optional Switches that add fine-tune ability to Basic Switches:
 -v [--verify]            verify file and chip
 -a [--block-index]       decimal block index, separate by '|'(e.g. -a "0|10|20")
 -N [--nand-setting]      set NAND flash program method(e.g.--nand-setting "spare: 0|skip: 0 | ecc: 1")
                          spare: spare area with user data, 1->use file, 0->non use; default =0
                          skip: skip bad block, 1->skip, 0-> non-skip; default =1
                          ecc: enable internal ecc, 1->enable, 0->disable; default = 1
 --blink arg
                          - 0 : Blink LEDs 3 times from USB1 to USBn (Default)
                          note: the sequence is assigned by OS during USB plug-in
                          - 1: Blink the programmer connected to USB1 3 times.
                          - n: Blink the programmer connected to USBn 3 times.
 --device arg             (work with all Basic Switchs)
                          1: activate only the programmer connected to USB1
                          - n: activate only the programmer connected to USBn
                          note: if '--device' is not used, the command will
                                be executed on all connected programmer.
```

```
 --fix-device arg          Fix programmer serial number with programmer sequence.
                           - instructions must be enclosed in double quotation marks("")
                           Example:
                            dwcmd --fix-device "1 SPU000001"
 --list-device-id arg
                           - 0 : List all ID of programmers from USB1 to USBn (Default)
                           note: the sequence is assigned by OS during USB plug-in.
                           - 1: Prompt the device ID of programmer connected to USB1.
                           - n: Prompt the device ID of programmer connected to USBn.

Miscellaneous options:
 -t [ --timeout ] arg (=600)  Timeout value in seconds
 -i [ --silent ]              suppress the display of real-time timer counting
                              - used when integrating with 3rd-party tools(e.g. IDE)
 --log arg                    write operation result into a file(Default is located C:\DediLog\dwcmd-xxxxx.log)
                              Example:
                               dwcmd --usb-prj d:\test.dprj --log d:\result.txt
```

Command	Descriptions
Basic Switches:	
-? [--help]	Show help message
-d [--download-prj] arg	Download project file to StarProg embedded SD card and read back to compare. Note: download project can NOT work with eMMC, NAND and parallel NOR flash
-r [--run-prj]	Run the project file which exists in StarProg embedded SD card. Note: run project can NOT work with eMMC, NAND and parallel NOR flash
-R [--run-prj-only]	Run the project file which exists in StarProg embedded SD card without start project. Note: run project can NOT work with eMMC, NAND and parallel NOR flash
-s [--start-prj]	Start the project which has been run.
-T [--stop-prj]	Stop current project.
-f [--finfo] arg	Display the project information
-b [--blank]	blank check
-e [--erase]	erase entire chip
-p [--program] arg	program chip without erase e.g. -p "file1.bin | file2.bin | ..." separate files by '|'
--type arg	specify a type to override auto detection e.g. --type "W25N01GVSFxx[SOP16 300mil]-Winbond"
--detect-spi-nand	Auto detecting spi nand.
--usb-prj arg	Execute project file directly; it is able to work with all chips (Default programmer is connected to USB0)
Optional Switches that add fine-tune ability to Basic Switches:	
-v [--verify]	verify file and chip
-a [--block-index]	decimal block index, separate by '|'(e.g. -a "0|10|20")
-N [--nand-setting]	set NAND flash program method(e.g.--nand-setting "spare: 0|skip: 0 | ecc: 1") spare: spare area with user data, 1->use file, 0->non use; default =0 skip: skip bad block, 1->skip, 0-> non-skip; default =1 ecc: enable internal ecc, 1->enable, 0->disable; default = 1
--blink arg	- 0 : Blink LEDs 3 times from USB1 to USBn (Default) Note: The sequence is assigned by OS during USB plug-in - 1: Blink the programmer connected to USB1 3 times. - n: Blink the programmer connected to USBn 3 times.

--device arg	(Work with all Basic Switches) - 1: Activate only the programmer connected to USB1 - n: Activate only the programmer connected to USBn Note: If '--device' is not used, the command will be executed on all connected programmer.
--fix-device arg	Fix programmer serial number with programmer sequence. - Instructions must be enclosed in double quotation marks("") Example: dwcmd --fix-device "1 SPU000001"
--list-device-id arg	- 0 : List all programmers' ID from USB1 to USBn (Default) Note: The sequence is assigned by OS during USB plug-in. - 1: Prompt the device ID of programmer connected to USB1. - n: Prompt the device ID of programmer connected to USBn.
Miscellaneous options:	
-t [--timeout] arg (=600)	Timeout value in seconds
-i [--silent]	Suppress the display of real-time timer counting - Used when integrating with 3rd-party tools(e.g. IDE)
--log arg	Write operation result into a file(Default is located under C:\DediLog\dwcmd-xxxxx.log) Example: dwcmd --usb-prj d:\test.dprj --log d:\result.txt

> **Note:**
> Windows Command Line <u>does not</u> support ProgMaster series.

Usage Examples:

1. dwcmd -d file.dprj -r
   Download project file to StarProg and run it
2. dwcmd -r
   Run project from the StarProg embedded SD card
3. dwcmd --usb-prj file.dprj
   Execute project file via USB.
4. dwcmd --usb-prj file.dprj --device 1
   Execute Programmer 1 project file
5. dwcmd -d file.dprj --device 1
   Download project file to programmer 1
6. dwcmd -r --device 1
   Execute project file
7. dwcmd -d file.dprj -r --device 2
   Download project file to StarProg and run the project file on programmer 2
8. dwcmd -d file.dprj -r --log d:\result.txt
   Download project file to StarProg and save the operation result to d:\result.txt.

V. Revision History

Date	Version	Changes
05/11/2016	1.0	Initial release
11/13/2016	1.1	Add –R/-s/-T command and description
06/12/2019	1.2	Add NAND command and description

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