USAGE:

(1) Burn flash data

./dldtool <COMMON-OPTIONS> [ -m <address>[/<value>] ] <programmerFile> <FLASH-FILE-LIST>

(2) Erase sector

./dldtool <COMMON-OPTIONS> -e <address>[/<length>] <programmerFile>

(3) Erase the whole chip

./dldtool <COMMON-OPTIONS> --erase-chip <programmerFile>

(4) Burn security register data

./dldtool <COMMON-OPTIONS> [ --sec-magic <address>[/<value>] ] <programmerFile>

{ [ --sec-addr <address> ] [ --no-sec-default-magic ] --sec-file <secRegFile> |

--sec-lock <address>[/<length>] }

(5) Erase security register

./dldtool <COMMON-OPTIONS> --sec-erase <address>[/<length>] <programmerFile>

(6) Ramrun programmer

./dldtool <COMMON-OPTIONS> --ramrun <programmerFile>

(7) Read efuse

./dldtool <COMMON-OPTIONS> --efuse-read <page> <programmerFile>

(8) Write efuse

./dldtool <COMMON-OPTIONS> --efuse-write <page>/<value> <programmerFile>

COMMON-OPTIONS:

{ [ -b <baudRate> ] <comPortNum> | [ --usb-verbose ] usb } [ -v ] [ --no-sync ]

[ --no-shutdown | --reboot ] [ --no-default-magic ] [ --pgm-rate <baudRate> ]

[ --force-uart | --force-usb ] [ --retry <maxRetryCnt> | --no-retry ]

[ --w4 <address>/<value> ] [ --u4 <address>/<value>/<mask> ]

FLASH-FILE-LIST:

<FLASH-FILE 1> [ <FLASH-FILE 2> ... ]

FLASH-FILE:

[ --addr <address> ] [ { --remap | --remap-both } <remapOffset> ] <flashFile>

DESCRIPTION:

-b <baudRate> Optional. Specify COM port baud rate

<ttyPort> serial device device

--usb-verbose Optional. Enable usb verbose trace

usb Monitor USB serial plugin and extract COM number automatically

-v Optional. Enable download verbose trace

--no-sync Optional. Skip the first sync operation

--no-shutdown Optional. Skip the shutdown or reboot operation when finished

--reboot Optional. Reboot when finished

--no-default-magic

Optional. Skip the default magic number burning operation

--pgm-rate <baudRate>

Optional. Change programmer uart baud rate

--sector-size-kib <sectorSizeKiB>

Optional. Set sector size in KiB (default 32 KiB)

--force-uart Optional. Force uart mode

--force-usb Optional. Force usb mode

--sec-boot-ver <secBootVer>

Optional.Specify the secure boot version (0 stands for the newest version)

--retry <maxRetryCnt>

Optional. Specify the max retry count in case of failure

--no-retry Optional. Never retry in case of failure

--w4 <address>/<value>

Optional.Write memory before running programmer

--u4 <address>/<value>/<mask>

Optional. Update memory before running programmer

-M Optional.Burn the default magic number value for the following flash binary

file or security register data file

--auto-magic <value>

Optional. Burn the magic number value for the following flash binary

file or security register data file

-m <address>[/<value>]

Optional. Specify magic number address and value

This option can occur multiple times

-e <address>[/<length>]

Mandatory. Specify sector address and length to be erased

This option can occur multiple times

--erase-chip Mandatory. Erase the whole flash chip

--erase-chip-index <index>

Mandatory. Erase the specified flash chip. (-1 for boot chip and -2 for all chips)

--erase-chip-addr <address>

Mandatory. Erase the specified flash chip. (erase boot chip if address not found)

--set-dual-chip <mode>

Optional. Set dual chip mode for the boot flash chip.

(0 to disable, 1 to enable flash dual chip, 2 to enable flash and secReg dual chip)

--set-dual-chip-index <index>/<mode>

Optional. Set dual chip mode for the specified flash chip. (-1 for boot chip)

--set-dual-chip-addr <address>/<mode>

Optional. Set dual chip mode for the specified flash chip. (boot chip if not found)

<programmerFile>

Programmer binary file

--addr <address>

The following flash binary file is burned on given address

If omitted, the address is extracted from the tail of file

--remap <remapOffset>

The following flash binary file is burned on remapped address

--remap-both <remapOffset>

The following flash binary file is burned on both normal and remapped address

<flashFile> Flash binary file

--sec-addr <address>

Optional. Specify the address of the following security register data file

If omitted, the address is extracted from the tail of file

--no-sec-default-magic

Optional. Skip the security register default magic number burning operation

--sec-file <secRegFile>

Optional. Specify security register data file to be burned

This option can occur multiple times

--sec-magic <address>[/<length>]

Optional. Specify security register magic number address and value

This option can occur multiple times

--sec-lock <address>[/<length>]

Optional. Specify security register address and length to be locked

This option can occur multiple times

--sec-erase <address>[/<length>]

Mandatory. Specify security register address and length to be erased

--efuse-read <page>

Mandatory. Read the efuse page

--efuse-write <page>/<value>

Mandatory. Write the efuse page

This option can occur multiple times

Examples:

./dldtool /dev/ttyUSB0 ./out/programmer.bin ./out/best.bin