

Technical Note

Erasing a specific Flash Memory region

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A **TASKING** Company

This Technical Note describes how to erase a part of a Flash memory with a Python script.

Tool requirements:
 ✓ winIDEA IDE 9.12 / 9.17 / 9.21
 ✓ BlueBox debugger
 ✓ Active Probe / Debug Adapter

Erasing just a portion of a Flash memory device can be achieved with a Python script via isystem.connect API.

i The granularity of the erased section depends on the target device. The smallest size of Flash memory that can be erased is defined with the Flash sector size. To get accurate information about sector sizes of your Flash device, refer to the microcontroller or Flash reference manual.

Python script example

Script should be used as a reference and changed according to the required operation. Use [test_storage_erase.py](#) script.

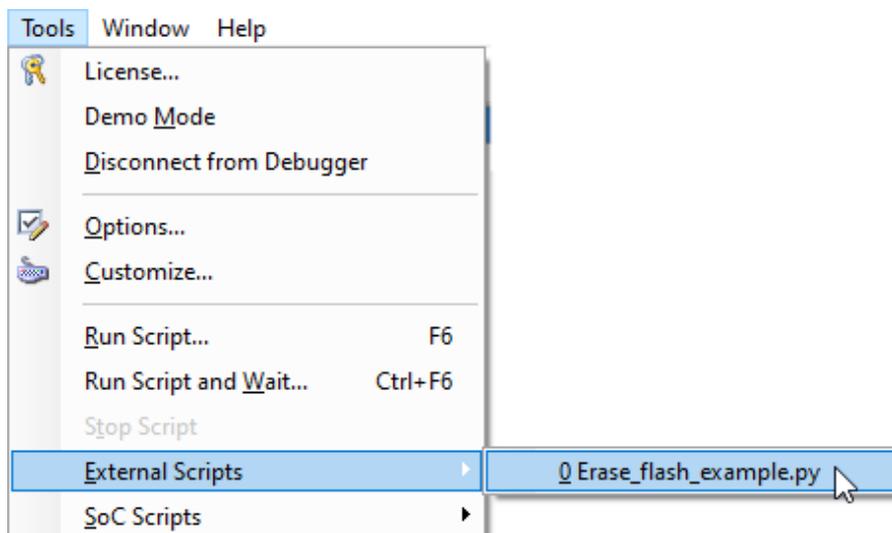
winIDEA Configuration

Run the script in winIDEA:

1. Modify the script according to the required configuration and save it in the same folder as winIDEA workspace.

i The Flash device name should be the same as it is displayed in the Hardware menu. Example: ST STM32H7xxxL_2048KB

2. Enable Flash programming in *Hardware / Options / Programming* for selected Flash device.
3. Start Debug session (Debug status must be STOP).
4. Select your Python script in *Tools / External Scripts*.



More resources

- [How to run Python scripts in winIDEA](#) - winIDEA Help
- [isys::CStorageDeviceController](#) - isystem.connect Help