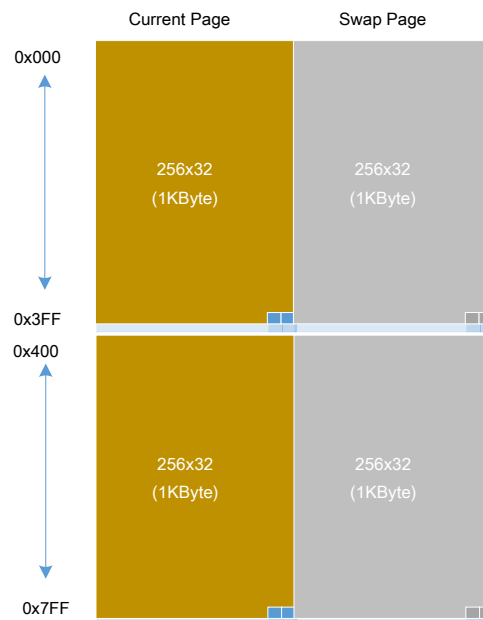When the system configuration E2PROM Simulation space is greater than 1K Time, E2PCTL Or to the page for the smallest unit to achieve E2PROM Simulation algorithm space. For example, if you configure 2K of E2PROM Area, in fact, E2PCTL It will take up 4 Pages (4K)Space. among them 2 It is a set of pages, a page size for the analog E2PROM space.

Note that the user-configured 2K Byte E2PROM Space is not continuous, because the end of each page 2 Bytes will be used to save the page state information.

E2PCTL Continuous programming mode

Because by E2PCTL Updates will lead to the exchange page, the page will exchange process for exchanging page erase, page erase not only time consuming, but also will increase FLASH The loss of life. therefore E2PCTL Increases sequential write mode. In the continuous write mode, the user can continuously update E2PROM Area, only in the last consecutive addresses, will perform paging operations, applications that require continuous updating a block of data, Continuous mode more effective.

Continuous programming mode E2PCTL Control register ECCR of SWM Bit. After the continuous mode is enabled, the subsequent write operation to write data directly on the switch corresponding to the page address, in SWM Mode, the write operation is not performed CP0 / 1 Area data copy operation. Before writing the last byte, software SWM Prohibit continuous mode, and then write, then E2PCTL

Will perform a complete CP0 / 1 The copy operation and update status information page.