Timer IP

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1 Overview

The TIMER IP provides the software developer of an easy to use API, consisting of 4 C-macros, for starting, stopping, resetting and reading the 32-bit built in NIOS II timer, which has its hardware interface at adresses 0x9000 to 0x900F.

2 API -Necessary include files

For error free usage include the following header-files into your main application

```
<stdio.h>, <io.h>, <altera_avalon_timer_regs.h>
```

3 API – Software calls

3.1 Start of timer

Call	Arguments	Returns
TIMER_START;	None	void

3.2 Stopping the timer

Call	Arguments	Returns
TIMER_STOP;	None	void

3.3 Resetting the timer to zero

Call	Arguments	Returns
TIMER_RESET;	None	void

3.4 Reading the timer

Call	Arguments	Returns
TIMER_READ;	None	32-bit unsigned integer