Novatek HDAL Design Specification - hd_util

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1 Introduction

The major purpose of hd_util is supporting some utilities for other functions. We will introduce the utilities in the following sections.

2 Function and data structure definition

2.1 Function definition

2.1.1 hd_read_decimal_key_input

[Description]
Read the decimal input key and translate to unsigned long integer.

[Syntax]
UINT32 hd_read_decimal_key_input(const CHAR* comment)

[Parameter]

Value	Description
comment	Input description.

[Return Value]
Translated integer

2.1.2 hd_gettime_ms

[Description]
Get the time from system boot up in milliseconds.

[Syntax]
UINT32 hd_gettime_ms(VOID)

[Return Value]
Time from system boot up

2.1.3 hd_gettime_us

[Description]
Get the time from system boot up in microseconds.

[Syntax]
UINT64 hd_gettime_us(VOID)

[Return Value]
Time from system boot up

3 Debug command

The util module supports debug menu to debug.

3.1 Debug menu

The currently supported util module debug menu is as below.

```
==============================
 UTIL
------------------------------
 01 : dump status
------------------------------
```

Example:

```
------------------------- UTIL -----------------------------------------------
current time (ms)
1726523
```

4 Use cases

4.1 hd_read_decimal_key_input

```
    UINT32 input = 0;


    /*get user input*/
    intput = hd_read_decimal_key_input("");
```

4.2 hd_gettime_ms

```
UINT32 time = 0;


/* get time in ms */
time = hd_gettime_ms();
```

4.3 hd_gettime_us

```
UINT64 time = 0;


/* get time in us */
time = hd_gettime_us();
```