Linux time UTC KST RTC

.

. RTC(Real-Time Clock)

.

x86 PC .

OS .

OS RTC . OS

NTP .

.

```
                    ┌─────────────┐
                    │   NTP 서버   │
                    └──────┬──────┘
                           │
                           ▼
┌─────────────┐     ┌─────────────┐     ┌─────────────┐
│   OS 부팅    │────▶│  시간 동기화  │────▶│   시간 사용   │
└─────────────┘     └─────────────┘     └─────────────┘
              ▲            │
              │            │ 시계 재설정
       ┌──────┴──────┐     │
       │    RTC      │◀────┘
       │(Real-Time Clock)│
       │   메인보드    │
       └─────────────┘
```

.

.

UTC(Universal Time, Coordinated) .

GMT(Greenwich Mean Time) .

. 0 360

.

UTC GMT GMT 24

24 .

UTC . UTC GMT

.

.
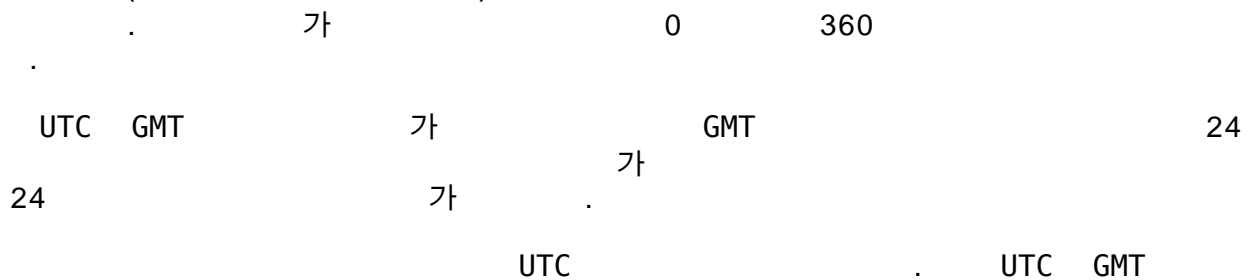.   +
.

            UTC+09:00   KST(Korea Standard Time)
    9   .   0   9   .

            IT   local time   .
                                                                        .

        ,   .

            KST
                ?

                                                    .

                                        UTC   locale   ,
                                        .

    • Windows   RTC   .
    • Linux   RTC + local time   .

        Linux   RTC   UTC   .

            RTC   00:00   00:00
        09:00   .   NTP
                                    .

```
root@server:~# timedatectl
                Local time: Thu 2021-05-06 00:43:18 KST        # <-        OS

            Universal time: Wed 2021-05-05 15:43:18 UTC        # <- UTC
                 RTC time: Wed 2021-05-05 15:43:19             # <-                RTC

               Time zone: Asia/Seoul (KST, +0900)            # <- OS
timezone
System clock synchronized: yes                                 # <- RTC   OS

             NTP service: active                             # <- NTP

         RTC in local TZ: no                                 # <- RTC
localtime
```

```
root@server:~#
```

RTC   localtime   .

                                        .

                                    .

```
$ timedatectl set-local-rtc yes
```

RTC   localtime   .

From:

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https://atl.kr/dokuwiki/doku.php/linux_time_utc_kst_rtc?rev=1620232544

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