Hack postgres Source Code: Vol I

Chapter 1: C & Rust

1.45 Time Library - C

time.h consists of variable struct tm. Calendar time can be built using the members of this structure.

```
struct tm {
                     // range 0 to 59
   int tm_sec;
   int tm min;
                       // range 0 to 59
   int tm_hour;
                       // range 0 to 23
                     // range 1 to 31
   int tm_mday;
   int tm_mon;
                     // range 0 to 11
  int tm_year;
                     // The number of years since 1900
  int tm_wday;  // range 0 to 6
int tm_yday;  // range 0 to 365
   int tm_isdst;
                      // saving time
```

There is a function called asctime which takes address of this structure and returns constructed time in the form of string. So, basically, this function takes address of structure and returns a character pointer.

```
#include <stdio.h>
#include <string.h>
#include <time.h>
int main () {
   struct tm t;
   t.tm sec
              = 0:
   t.tm_min
             = 0;
   t.tm_hour = 12;
   t.tm_mday = 5;
   t.tm_mon
              = 4;
   t.tm_year
              = 122;
   puts(asctime(&t));
   return(0);
}
```

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