**Lua report: os library**

Lua creat a file named “123”

os.execute("md 123")

creat a file named “123” and the content is “456”

local file = io.open("123.txt","w")

file:write("456")

file:close()

creat a csv file and make it header.

local file=io.open("123.csv","w")-- body

csv\_header = csv\_header.."PanelSN,Serial Number,Config,Station ID,Site ID,Test PASS/FAIL STATUS,Error Message,List of Failing Tests,Test Start Time,Test Stop Time,Total Test Time".."\r\n";

csv\_header = csv\_header.."Upper Limited-------->,,,,,,,,,".."\r\n";

csv\_header = csv\_header.."Lower Limited-------->,,,,,,,,,".."\r\n";

csv\_header = csv\_header.."Measurement Units---->,,,,,,,,,".."\r\n";

file:write(csv\_header)

file:close()

**Read of of the content in the file.**

local file1 =io.input(file\_name)

local str=io.read("\*a")

**Use the OS library**

os.clock ()

return the program’s time of the CPU

local x = os.clock(); print(os.clock())

os.date ([format [, time]])

format: "\*t":return year(4bit),month(1-12), day (1--31), hour (0-23), min (0-59), sec (0-61), wday (weeks,1 represent Sunday), yday (days), and isdst. if there is no “\*t”,return a striftime string in C

t = os.date("\*t", os.time()); for i, v in pairs(t) do       print(i, v); end

Output：

hour  14

min   58

wday  2

day   10

month  8

year  2009

sec   18

yday  222

isdst  false

format格式

%a      (Sun,Mon,Tue,Wed…)

%A     （Sunday,Monday,Tuesday,Wednesday…）

%b     （Jan,Feb,Mar,Apri,May,June…）

%B      full name of month （September）

%c      date  （09/16/98 23:48:10）

%d      date（16）[0 ~ 31]

%H      hour in 24（23）[00 ~ 23]

%I      hour in 12（11）[01 ~ 12]

%j     day （259）[01 ~ 366]

%M      minute  （48）[00 ~ 59]

%m      month（09）[01 ~ 12]

%P      " (am)" or"(pm)"

%S      second  （10）[00 ~ 59]

%w     （3）[0 ~ 6 = Sunday ~ Saturday]

%W　　count weeks in a year　　　　　　0 ~ 52

%x date

（09/16/98）

%X     time（23:48:10）

%y     year      （90）[00 ~ 99]

%Y     full format represent year(2009)

%%      the char'%'

os.difftime (t2, t1)

return the time between t2 and t1.through seconds.

t1 = os.time();

for i = 0, 10000000 do

 os.time();

end

t2 = os.time();

print(os.difftime(t2, t1));

os.execute ([command])

Equivalent to the C system function, return the system status code

os.remove (filename)

delete a file or a repository. If the function is called fail then return nil and error message.

os.rename (oldname, newname)

change a file or a repository’s name. If the function is called fail then return nil and error message.

os.setlocale (locale [, category])

Set the current settings of the program, the function returns the latest value, and the failure returns nil

os.time ([table])

Returns a time value (number) according to the contents of the table, and returns the current time table field if there is no parameter

os.tmpname()

return temp file name