OSLab5 实验报告

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Notes:如果运行出错,可能需要您安装 nasm & ImageMagick & gcc 4.9.2 Git 记录可查询

实验目标:

为操作系统建立文件系统,建立根目录,并提供搜索读取机制,为硬件驱动增加写功能.

实验步骤:

- 1. 规划磁盘镜像的地址分配,把程序提前写入镜像.
- 2. 在根目录文件信息初始化时增加预先写入信息.
- 3. 提供字符串操作函数
- 4. 提供根据文件名访问的方法
- 5. 测试

实验难点:

- 1. 镜像文件的地址空间分配需要提前做好安排,不然很容易出现冲突
- **2.** 页面大小,目录项数,字符大小等等有很多需要提前定义的内容,定义需要经验性.
- 3. 文件读取的机制,是否先创建内存分块镜像,本实验中采用简单的做法,由用户程序指定文件读入位置,操作系统将会加载完整文件至指定位置.
- 4. 提供字符串比较与查找功能.

```
Jerry@cood000coc:-/Desktop/oslab

complet 9799737c89792des46274caf55badd1cbddc4

complet 9799737c89792des46274caf55badd1cbddc4

add the function of string functions, and a root directory and read program from that point.

complete: Sat Jul 2 20:43:188 2016 +0800

add the function of string functions, and a root directory and read program from that point.

complete: Lue May 2 1:209:128 2016 -0700

add the binary semaphore functions besides original rotation lock and now debugnany bugs except one strange one list as the branch. settle this problem by rename the variable.

complete 805410229041475c3076a7db7c4faasb714686f1

Author: Jerry/QlutingXu sbluecar20058126.com>

active May 2 408:26112 2016 -0700

finish the stage 3 ping pong program. PA3 officially with no bugs.

complete 938648686488646f11328e86f64dd3

Author: Jerry/QlutingXu sbluecar20058126.com>

abate: Thu May 12 02:29:20 2016 -0700

test for branch

complete 93864888648886f4f11328e86f646640

Author: Jerry/QlutingXu sbluecar20058126.com>

add the forkex and semaphore function

complete: Wed May 1 108:15138 2016 -0700

add the forkex and semaphore function

complete: Wed May 1 08:15138 2016 -0700

add the forkex and semaphore function

basically finish all the functions next step is to fulfill and test then
```

实验结果:

完成了讲义要求的所有功能,并且系统休眠程序仍可正常运行。