```
Todo
```

14 November 2014 21:07

1. Check Memory Manager (Low-level) functions exist - Existing functions & init property

Li Add /remove from structus

2. Basic process manager Ly Load code to Create process & single thread to Stat Schoolule

3. Basic Schedule

Ly Switch register values, processes & threats

Lo Very Jimple fired-time basel system

Load Code / Create Process / Create Thread

1. Create process object

Ly All to list of processes

Ly Aroces object needs to take managings for now. (This well shift to Money Legant Coto).

2. Allocate enough pages for code to be Control

Ly 1 page for now.

Ly Code should contain a micro stalk, stall inte and man method = ing. loop with test output & bugy want

Ly Add page to processes pages list

3. Create thread object

Ly Set execution (instruction) pointer

Ly Add threat to Processes' list

Scheduler

1. On invake:

- Registo time interrupt

2. On time interrupt:

- Switch into hemel space

- Store process / throat state

- Get next thread

- load process / thread state

- Swilch into process space

- Return to execution

Process Manager

1. Init:

- Creat process & threat for the bernel

- Invoke xtedeuler

- Fell in stacks

Full todo list:

1. Set page attributes method

2. Create Stack class

3. Create physical & virtual stacks

4. Add nit call to fill in stacks

5. Check int mapping cade

6. Create wapper all Isonore from stad methods

7. Create find fee pages methods

P. Create Map / Unmap page methods

9. Create Process class

10. Gents Threat class

11. Create Memory Layant class

12. Write Greate / Ist process / threat methods

13. Create Process Manager class

14. Add creat process methods

15. Add int proces many methods

16. Add interprets

1). Creck Scheduler class

18. Add schedule methods

19. All int stretter also

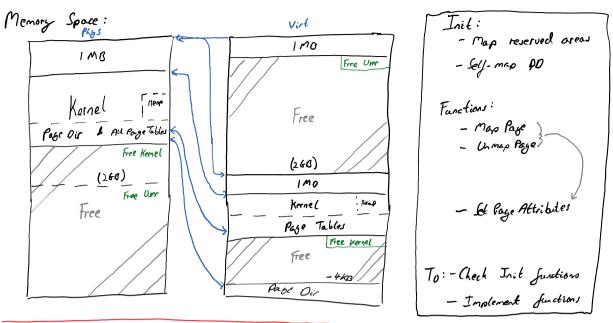
20. Create besin test program

21. Add colo to worker Gal of basic but program

In. Pray it an works!

14 November 2014

Low-Level Manager - Manages physical momory layout & current virtual layout



Second-Level Manager - Handles multiple memory layouts (virtual only)

Functions:

- Create bayout
- Destroy Layout
- Load Layout
- Save Layout

Layout:

- PD & PTs

Process Manager

14 November 2014

Functions:

- Load code from file into memory

- (reste a menoz layout for the process

- Setup a thread for process

- Start process

- Handle process exit

21:00

- Postroy thread

- Destroy layout

- Remove code from memory

(lare fication:

Proces owns:

Lo Memory Layout Ly Through

Threads show processes' memory layout.

Scheduler

14 November 2014 21:05

Switch = Save then land

- Switch processes

by Switch memory layouts

Ly Switch register volves

(4) Switch exocution (evol)

- Pulls process & through info from

process manager

Supplies memory layout info.

System Calls

14 November 2014

Examples:

- Sleep
- Process Exit
 Memory Regulat
 Pipe Commands

Pipes Manager

14 November 2014

21.17