貧エン乙 408262416 陳娇婷.

> temporary data storage when invoking function (such as function parameters, return address) at the state county to my property Montenantal and local variables) > Memory that is dynamically allocated during program run time. heap and not placed at the right faction of a magnification of data + Global value low = executable code. I am consequence and the consequence and the code. text

2. (i) switching the CPU core to another process require performing a state cave of the current process and a state restore of a different process. news through a spine a side william &

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- (ii) When system call or interrupt occur. along a result of the recomment new course of a
- 3. Process Control Block (PCB)
 - O Process state
 - 2 Program counter
 - 3 CPV register
 - @ CPV scheduling information
 - 1 Memory management information
 - 6 Accounting information
 - 1) IlO status information
- 4. (7) Zombie

Lear worth to post square sod so they so make in Definition: a process that has terminated, but whose parent has not yet to called wait().

: Only need to wait a moment. The process identifier of the zombie process and its entry in the process table are released.

(ii) Orphan

Definition: a parent didn't invoker wait() and instead terminated.

= Assign a init process to orphan to be its new parent = only in UNIX Handled Assign a system or other process in Linux systems.

5. Direct - process must name each other explicitly

- Links are established automatically between every pair of process that want to communication

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- A link is associated with exactly two processes
- -> Between each pair of processes, there exists exactly one link.
- Symmetry in addressing sender process and receiver process must hame the other.

- Indirect on the party of the property of the party of the party of the > Send to and received from mailbox or port
- > Mailbox has a unique identification.
- > A process can communicate only if they share a mailbox
- > A link may be associated with more than two processes
- A number of different links may exist, with each link corrsponding to one mailbox
- + Link may be unidirectional or bi-directional.

Socket

- > an endpoint for communication
- → communication of IP address and port
- server wait clients by listing to a specificed port
- > All ports below 1024 are well known, used for standard services for server.
- > clients are arbitrary port number greater than 1024
- > Common and efficient 110 the and much make the continuous of part con your
- > low level communication at the intermediate strong of the running of the production

RPC

- Abstracts procedure calls between processes on networked systems
- high level communication

case 1:

曾 client 傳送 request 給 server 端,但沒有傳送成功,

則 client -直傳送 request直則傳送成功且回傳給 client.

case 2:

當 client得送request 結 server 端是成功的,但 server 端 回傳 ACK能 client失败则 client 繼續得 request 結 server 端 只是此時 server 端 时time stamp有記錄了,

所以就直接回信相同可ACK直到成功。

8. 05 typically provides a redezvous (or matchmaker) service to connect, client and server.