Proses Job Control

Process and Job Control

Praktikum Sistem Operasi

Ilmu Komputer IPB

2017

Proses Job Control

Proses

ps

Menampilkan cuplikan informasi proses yang sedang berjalan.

```
ps [OPTION]
```

- ▶ -e: (every) semua proses
- ► -f: (full) format lengkap
- ► -L: (lightweight) tampilkan informasi thread
- --forest: pohon proses

pstree

Menampilkan pohon proses.

```
pstree [OPTION] [PID|USER]
```

- ▶ -n: (numeric) urutkan berdasarkan PID
- ▶ -p: (PID) tampilkan PID

Proses Job Contro

top

Memonitor proses.

top [OPTION]

- ▶ -u USER: proses milik USER tertentu saja
- ▶ -p PID: proses PID tertentu saja

htop

Memonitor proses secara interaktif.

htop [OPTION]

- ▶ -u USER: proses milik USER tertentu saja
- ▶ -p PID: proses PID tertentu saja

pgrep

Proses

Mendapatkan PID suatu proses berdasarkan namanya.

pgrep [OPTION] PATTERN

▶ -u USER: proses milik USER tertentu saja

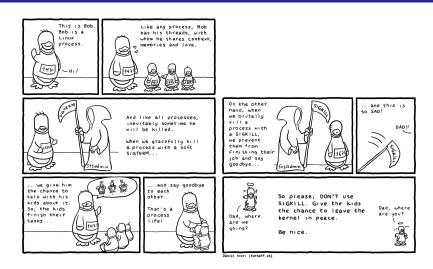
kill

Mengirim sinyal ke suatu proses (default SIGTERM).

kill [OPTION] PID

- -SIG: mengirim sinyal SIG
- ▶ -1: (list) menampilkan semua daftar sinyal

Proses Job Contro



Gambar 1: Don't SIGKILL

pmap

Menampilkan memory map sebuah proses.

```
pmap [OPTION] PID ...
```

-x: extended format

lsof

Menampilkan daftar file yang sedang dibuka oleh proses.

lsof [OPTION] [FILENAME]

▶ -p PID: proses PID tertentu saja

nice

Menjalankan program dengan prioritas (niceness)¹ tertentu.

nice [OPTION] COMMAND

-n NICE: mengeset nilai NICE

¹nilai *niceness* antara -20 (prioritas tinggi) sampai 19 (prioritas rendah)

renice

Mengubah prioritas proses yang sudah berjalan.

renice [OPTION] PID

▶ -n NICE: mengubah nilai NICE

An amazing directory:

Every process on Linux has a PID. (like 42). In /proc/42, there is a lot of VERY USEFUL information about process 42 \(\)

{/proc/42/env}

Here live all of the process's environment variables

*fd" stands for "file descriptor".
Here you'll find links to
all open files!

{/proc/42/cmdline}

The command line arguments it was started with!

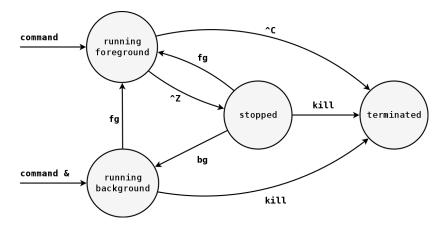
AND MORE: look at Iman proc!

Gambar 2: Process information filesystem

Proses Job Control

Job Control

Process State



Gambar 3: Process state

Background Process

Untuk menjalankan proses di *background*, tambahkan tanda & pada akhir perintah.

COMMAND &

jobs

Menampilkan daftar job yang sedang aktif.

jobs

fg

Memindahkan job ke foreground.

fg [JOBSPEC]

bg

Memindahkan job ke background.

bg [JOBSPEC]