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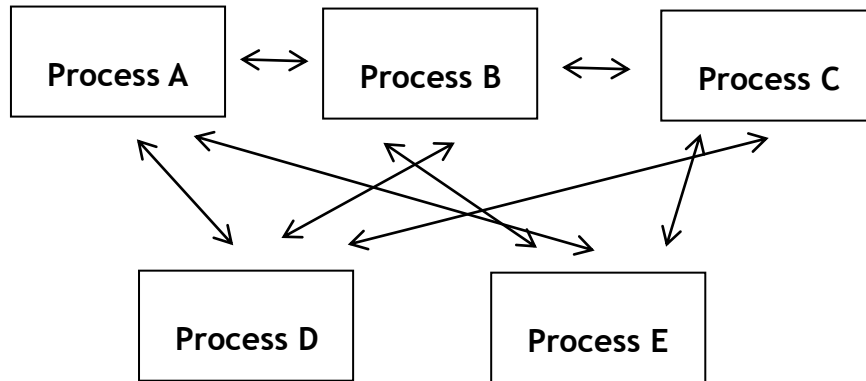
Date : 21st June 2018

Notes

- Windows System;
- Graphic context;
 - ~ Don't mess up with the context
 - ~ Is CSS to JavaScript, HTML
 - ~ Context
 - ~ Predetermined set of values (etc; width, height, colors)
- XFillRectangle (display, window, DefaultGraphicsContext(d, s), x, y, width, height);
- XPutImage
- Code...
 - Display *d; //Pointer to display
 - Window w; //Drawable window
 - XEvent e; //XEvent for an event driven system
- Screen = DefaultScreen(d);
- XSelectInput... //Masking
 - //What sort of event window interested in..

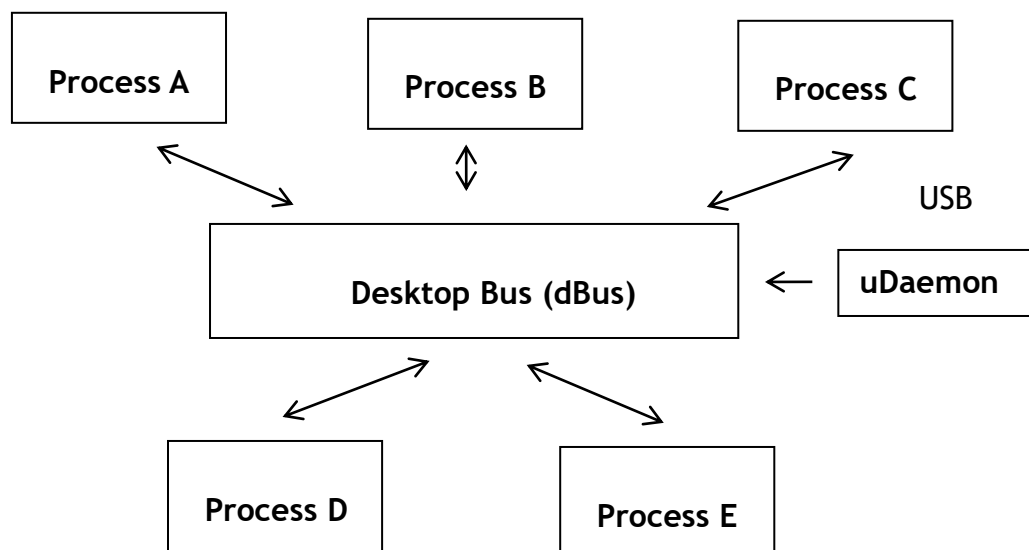
- The desktop environment is composed with a lot of different processes.

- Past;



- All the processes need to talk to each other all the time

- Present;



- dBus;

- ~ Software bus abstraction that collect all IPC into a single share virtual channel.
- ~ Allows communication running between process with a timely and orderly manner.
- ~ Take the input of different processes.

- Most Linux used dBus instead of polling

~ Idea of event and event queue to avoid polling.

~ For example:

> Inserting a USB drive:

Whenever anything new happen, the dBus handle everything.

- dbus;
 - ~ Standardize and regulate the communication between processes.
 - ~ dbus always has Daemon running in the background.
 - ~ When you want to dis* a person, you have to tell the person.
- Process connected to dbus may create event that may interested by another processes.
 - ~ For example:
 - > the uDisk Daemon listen to the Ubus for disk event which listened to
- dbus;
 - ~ Now an integral part of the Linux system
 - ~ systemd;
 - > What process is boot when Linux start.
 - ~ systemd;
 - > Communicate with the processes through the dbus.
- X - System;
 - ~ Client - Server System
- Desktop utilities should never be dependencies of the core operating system.
 - ~ If something is important, it should never be made dependency to something else.
 - ~ Should be made less dependency as much as possible (0 is better).
- Two (2) types of dbus;
 - ~ The system instances:
 - > The system instances start with the the dbus.
 - > Control underlining Bus.
 - ~ The session instances:
 - > The session instances start with the desktop.
 - > Specific to the Bus.
- dbus is just a really important file
- Everything's a file.....