« QEMU on ArchLinux Introduction to Algorithms Notes (I) - Foundations »

#### My I3 WM on ArchLinux

- Components Overview

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### Components Overview

DM: Light de
Task bar: dienu
Terminal: goone-terminal
FM: nauttlus
Editor: vin
Image viewer: feh, eog
Calculator: gnone-calculator
PDF reader: evince
Screenshot gnone-screenshot
Disk utility: gnone-disk-utility
Directory Analyzer: laudbau
System monitor: https:
Sound system: puiseaudio
Notification daemon: dunst

The i3 package group includes i3-wm, i3lock, and i3status packages.

```
1 # pacman - 5 13 dmenu gnome-terminal nautilus vin feh eog gnome-calculator evince \ 2 > gnome-screenshot gnome-disk-utility baobab htop pulseaudio pavucontrol dunst \ 3 > nethorksmaper methork-manager-applet numis-gtk-theme faenza-icon-theme \ 4 > arc-solid-gtk-theme arc-icon-theme lxappearance
```

1# pacman -S lightdm lightdm-gtk-greeter lightdm-gtk-greeter-settings accountsservice

# LightDM Configuration

## Greeter

I use lightdm-gtk-greeter as the greeter of lightdm.

```
/etc/lightdm/lightdm.conf
```

1 [Seat:\*] 2 greeter-session=lightdm-gtk-greeter

You can either manually edit the file /etc/lightdm/lightdm-gtk-greeter.conf or execute the lightdm-gtk-greeter-settings program to customize the greeter UI

## Automatic login

Uncomment these lines in the lightdm configuration file

```
/etc/lightdm/lightdm.conf
```

l[Seat:\*] 2 pam-service=lightdm 3 pam-autologin-service=lightdm-autologin 4 autologin-user≍cusername> 5 autologin-user-timeout=0

Then create a system group call autologin, and add the user into it.

1# groupadd --system autologin 2# gpasswd -a <username> autologin

Remember to enable the Lightdm, service and disable all the other display managers' services.

# i3 Configuration

# Major differences from the default configuration

- | [Alt] key is the modifier key. The forefault Contriguration
  | [Alt] key is the modifier key. The font is changed to "Consolas Bold 10". |
  | Most of the default [Smod+Shift] key bindings are changed to the [Smod+Control] key bindings. |
  | [K, ], ], [keys are used as [bp. Down, Leff, Right] accordingly, to be consistent with Vim. |
  | The International split key is changed from his og to avoid key collision. |
  | The Smod+Control-Left key binding for reloading ja is commented out. |
  | [Smod+m] is used to launch dimenu, rather than [Smod+d]. |
  | Two binding modes are added for system power management and external displays. |
  | The degle borders are hidden. |
  | Application shortcuts added, such as firefox, deadbeef, etc. |
  | Dynamic adjustment of Pulse Audio volume controls. |
  | Touchpad enable/disable controls. |
  | Scayboard and mouse configuration using xset. |
  | Disable DPMS (Energy Star) and screen saver blanking. |
  | Disable the mouse-following focus. |
  | Colors. |
  | Colors

- Colors.
   Startup programs.

# Configuration file

#
# Please see http://i3wm.org/docs/userguide.html for a complete reference!

# Font for window titles. Will also be used by the bar unless a different font # is used in the bar  $\{\}$  block below. font pages/cnosolas Bold 3

10 # This font is widely installed, provides lots of unicode glyphs, right-to-left 12 # text rendering and scalability on retina/hidpi displays (thanks to pango).

```
13 #font pango:DejaVu Sans Mono 8

14

15 # Before 13 v4.8, we used to recommend this one as the default:
16 # font -misc-fixed-medium-r-normal-13-120-75-75-70-10-1008646-1
17 # The font above is very space-efficient, that is, it looks good, sharp and
18 # clear in small sizes. However, its unicode glyph coverage is limited, the old
18 # Core fonts rendering does not support right-to-left and this being a bitmap
20 # font, it doesn't scale on retina/higpi displays.
22 # use these keys for focus, movement, and resize directions when reaching for
23 # the arrows is not convenient
24 set Sup k
25 set Sdown j
26 set Sleft h
27 set Sright l
                                                                                               29 # Use Mouse+$mod to drag floating windows to their wanted position
30 floating_modifier $mod
                                                                                           # start deemu (a program lawnomer)
bunders Benders week deemu you
# There also is the (new) 13-demend-dektop which only displays applications
# There also is the (new) 13-demend-dektop which only displays applications
# simpling a dektop file. If is a wrapper around deemu, so you need that
# installed.
# Dindsym Smodie oxec -no-startup-id-13-demu-desktop
                                                                                        ## Change focus

## Change focus

## Change focus

## Change focus

## Change focus down

## Change focus

## Change

## 
                                                                                                      60 # split in vertical orientation
61 bindsym $mod+v split v
                                                                                           62
63 # enter fullscreen mode for the focused container
64 bindsym $mod+f fullscreen toggle
                                                                                        bl Binisys Binor increases...ogs.

68 ethange container layout istacked, tabbed, toggle split)
67 bindsys Smodes layout stacking
68 bindsys Smodes layout togble
68 bindsys Smode layout toggle split
79 toggle tiling / floating
71 # toggle tiling / floating
72 bindsys SmodeControl+space floating toggle
                                                                                                                    # change focus between tiling / floating windows
bindsym $mod+space focus mode_toggle
                                                                                           76
77 # focus the parent container
78 bindsym $mod+a focus parent
                                                                      Discrete the current for Children Control of Children Control of Children Control of Children Children
                                                                                                                    # move the currently focused window to the scratchpad bindsym $mod+Control+minus move scratchpad
13-9
13-96 PO.
1
```

```
173
174 # Shortcuts
175 bindays Sodd-Control-I exec deadbee
177 bindays Sodd-Control-I exec deadbee
177 bindays Sodd-Control-I exec genome-calculator
180 bindays Control-I exec genome-calculator
180 bindays Control-I
```

# i3status Configuration

# Major differences from the default configuration

- The "Ipv6" order is commented out.
  Add 'disk' orders for each partition that you are interested in.
  Add CPU usage and temperature monitoring.
  Dynamic display of the current Pulse Audio output sink volume.
  The tz time format.

# Configuration file

```
~/.i3/i3status.conf (i3status.conf) download
        1 # i3status configuration file.
2 # see "man i3status" for documentation.
                            \ensuremath{\text{\#}} It is important that this file is edited as UTF-8. 
 \ensuremath{\text{\#}} The following line should contain a sharp s:
6 # 8 general {
9 general {
10 colors = true
11 colors = true
11 colors = true
13 }
14
15 Forder += "ipy6"
16 order += "disk // nome
17 order += "disk // nome
18 order += "disk // nome
19 order += "disk // nome
19 order += "copu_temperature 1"
21 order += "copu_temperature 2"
22 order += "copu_temperature 2"
22 order += "copu_temperature 3"
24 order += "copu_temperature 3"
25 order += "true!temperature 3"
26 order += "copu_temperature 3"
27 order += "doutemperature 3"
28 order += "copu_temperature 3"
29 order += "tarkeless wipps0"
21 disk '/" {
23 order += "tarkeless wipps0"
25 order += "tarkeless wipps0"
26 order += "tarkeless wipps0"
27 order += "tarkeless wipps0"
28 order += "tarkeless wipps0"
29 order += "tarkeless wipps0"
21 order += "tarkeless wipps0"
23 order += "tarkeless wipps0"
24 order += "tome: "percentage_used"
25 disk '/ format = "/home: "percentage_used"
26 disk '/ format = "load: %lain %Sain %ISmin %IS
                         # B
# If the above line is not correctly displayed, fix your editor first!
```

```
Scop_temperature 4 {

format "4: %degrees"C"

max_threshold = 75

spath = "/sys/devices/platform/coretemp.0/humon/humon*/temp4_input"

production = "5: %degrees"C

max_threshold = 75

path = "fsys/devices/platform/coretemp.0/humon/humon*/temp4_input"

cop_temperature 5 {

format = "5: %degrees"C

max_threshold = 75

max_threshold = 75

max_threshold = 75

max_threshold = 76

format_on = "%: (%quality at %essid) %ip"

format_don = "%! (%quality at %essid) %ip"

format_don = "%! down"

at fyou use %speed, i3status requires root privileges

format_on = "E: %ip (%speed)*

format_don = "E: down"

format_don = "E: down"

format_don = "E: down"

format_don = "E: down"

this bettery 1

format_don = "his battery"

plate seconds = true

format_don = "his battery"

plate seconds = true

format_on = "tive bettery"

plate seconds = true

down threshold type = time

format_mide = "; wolume"

format_mide
Dunst configuration
                                                      ~/.config/dunst/dunstrc (dunstrc) download
                                                                                                                                     # Which monitor should the notifications be displayed on. monitor = \boldsymbol{\theta}
                                                                                                                             # Display notification on focused monitor. Possible modes are:
# mouse: follow mouse pointer
keyboard: follow window with keyboard focus
none: don't follow anything
                                                                                                                                 " "keyboard" needs a window manager that exports the 
#_NET_ACTIVE_WINDOW property.
# This should be the case for almost all modern window managers.
                                                                                                                                     #
If this option is set to mouse or keyboard, the monitor option
# will be ignored.
follow = keyboard
                                                                                                                         foliow = keyboard

**The genetry of the window:

** {widuthlyk(height){t/-{c/t/-{t/t}}}

** The genetry of the missage window.

**The height is measured in number of notifications everything else
** in pixels. If the width is contrated but the height is given

**('-genetry 22'), the message window argands over the winde screen

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**('-genetry 22'), the message displayed. A positive x is measured from the left, a

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**nessage displayed. A positive x is measured.

**nessage displayed.

**nessa
```

 $\ensuremath{\textit{\#}}$  Show how many messages are currently hidden (because of geometry). indicate\_hidden = yes # Shrink window if it's smaller than the width. Will be ignored if # width is 0. shrink = no

# The transparency of the window. Range: [0; 100]. # This option will only work if a compositing window manager is # present (e.g. xcompmgr, compiz, etc.). transparency = 0

# Draw a line of "separator\_height" pixel height between two # notifications. # Set to 0 to disable. separator\_height = 2

# Defines width in pixels of frame around the notification window. # Set to 0 to disable. frame\_width = 0 # Defines color of the frame around the notification window. frame\_color = "#000000"

# Define a color for the separator.
# possible values are:
# auto: dants tries to find a color fitting to the background;
# " foreground: use the same color as the foreground;
# " frame: use the same color as the frame;
# " anything else will be interpreted as a X color.
separator\_color = #0000000\*

# The spacing between lines. If the height is smaller than the # font height, it will get raised to the font height. line height = 0

# Possible values are:
# full: Allow a small subset of html markup in notifications:
# full: Allow a small subset of html markup in notifications:
# classification()
# classification()
# classification()
# classification()
# classification()

strip: This setting is provided for compatibility with some broken clients that send markup even though it's not enabled on the server. Dunst will try to strip the markup but the parsing is simplistic so using this option outside of matching rules for specific applications 'IS GREATI' DISCOMMAGED'.

# Don't remove messages, if the user is idle (no mouse or keyboard input) # for longer than idle threshold seconds. # Set to 0 to disable, idle\_threshold = 60

For a complete reference see <a href="http://developer.gnome.org/pango/stable/PangoMarkupFormat.html">http://developer.gnome.org/pango/stable/PangoMarkupFormat.html</a>.

# Horizontal padding.
horizontal\_padding = 1

font = Consolas Bold 10

```
# It's important to note that markup inside the format option will be parsed

# regardless of what this is set to.

# arrhop of this

# The format of the message. Possible variables are:

# the format of the message. Possible variables are:

# the summer

# possible unless are "inft", "center" and "right".

# slipmant center

# Faring sallowed

# format "ana [ts] bb by"

# A large of message if message is older than show ape_threshold

# format center

# slipmant center

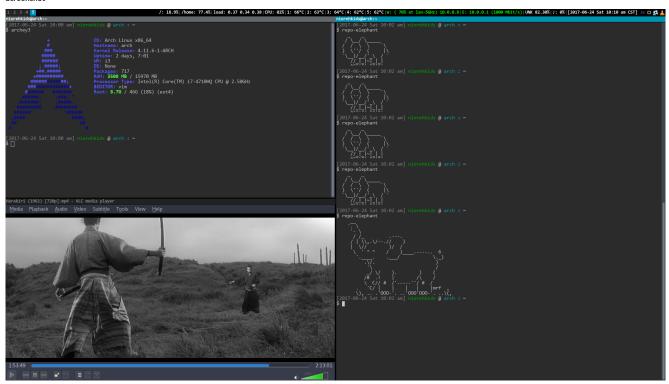
# slipm
                                                                                                            # Paths to default icons.
icon_folders = /usr/share/icons/gnome/16x16/status/:/usr/share/icons/gnome/16x16/devices/
```

```
273 # setting the "script" option.
274 # The script will be called as follows:
275 # Script appanes summary body icon urgency
275 # shere urgency can be "LOW", "MOMPAL" or "CRITICAL".
276 # NOTE: if you don't want a notification to be displayed, set the format
279 # to "".
280 # NOTE: it might be helpful to run dunst -print in a terminal in order
281 # to find fitting options for rules.
283 # summary = "".
284 # Summary = "".
285 # script dunst_espeak.sh
286 # Signification to the same of the
```

# Mounting support

1# pacman -S gvfs gvfs-afc gvfs-mtp

## Screenshot



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