This article tries to tell how to install Pardus to MacBook Pro 3rd. (Santa Rosa, Nvidia GPU) gen.

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Preparation

For installing dual boot with MacOSX and Pardus you can resize your disk and get free spaces for Pardus installation; there is a tool "http://en.pardus-wiki.org**diskutil**"http://en.pardus-wiki.org in MacOSX, but don't forget it is not a toy - you can lose your data -

Getting Disk Informations

```
$ diskutil resizeVolume disk1s2 limits
For device disk1s2 USB1:
       Current size:   99686268928 bytes
       Minimum size:   1118990336 bytes
       Maximum size:   99686268928 bytes
```

It shows (with *limits* option) you can resize your current disk at least 11~GB. So for resizing it as 75GB;

```
$ diskutil resizeVolume disk1s2 75G
Started resizing on disk disk1s2 USB
Verifying
Resizing Volume
Adjusting Partitions

Finished resizing on disk disk1s2 USB
WARNING: You must now reboot!
```

After that you must have a 25G free space on your hard drive.

For multi-boot you also need to install a boot manager from your current Mac OSX. You can use rEFIt, follow the instructions on the project site.After installing rEFIt you can use any bootable device (usb-disk,cd-rom etc.) to boot your MacBook Pro.

Installation

Install Pardus as you wish, but don't erase the first two partition (first one is refit, second one macosx) and

dont forget to install bootloader to pardus installed **partition**.

Configuring

You can use following settings. Some utils at the end of the file.

Key Settings

For Turkish Q Keymap you can use the following Xmodmap configuration;

```
keycode 116 = ISO_Level3_Shift
keycode 115 = Super_L
keycode 108 = Delete
keycode 49 = less greater NoSymbol NoSymbol bar
keycode 94 = quotedbl backslash
keycode 204 = F13
```

Also for shortcuts you can use xbindkeys with the following configuration;

```
"http://en.pardus-wiki.orgsetkeybright minus"http://en.pardus-wiki.org
  Mod5 + F9

"http://en.pardus-wiki.orgsetkeybright plus"http://en.pardus-wiki.org
  Mod5 + F10

"http://en.pardus-wiki.orgsetbright minus"http://en.pardus-wiki.org
  Mod5 + F1

"http://en.pardus-wiki.orgsetbright plus"http://en.pardus-wiki.org
  Mod5 + F2
```

How to activate Eject CD button

Look here

AirPort

With current madwifi you can use the AirPort ver well. But sometimes it gets "http://en.pardus-wiki.org*wifi: overrun FIFO errors*"http://en.pardus-wiki.org;

Workaround :

```
# iwpriv ath0 bgscan 0
```

To start at boot add to */etc/conf.d/local.start*

Sound Card

To get work your microphone you can use "http://en.pardus-wiki.orgmbp3"http://en.pardus-wiki.org option with snd-hda-intel; edit */etc/modules.d/alsa* and insert

```
options snd-hda-intel model=mbp3
```

and then restart the machine ..

Utils

You will need some utilities to use your MacBook Pro efficiently..

Keyboard Light Setting

You can use the following C code with *gcc -o setkeybright setkeybright.c*

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#define TARGET "http://en.pardus-wiki.org/sys/devices/platform/applesmc/leds:smc:kbd_backlight/bri

int limited(int inp) {
    if (inp<0) return 0;
    if (inp>255) return 255;
    return inp;
}

int main(int argc, char *argv[]) {
    int current,new;
    char tempC[10];
    FILE *fp = fopen(TARGET,"http://en.pardus-wiki.orgr"http://en.pardus-wiki.org);
    if (!fp)
        return 1;
    fread(tempC,4,1,fp);
    fclose(fp);
    fp = fopen(TARGET,"http://en.pardus-wiki.orgw"http://en.pardus-wiki.org);
    if (!fp)
        return 1;
    current=atoi(tempC);
    printf("http://en.pardus-wiki.orgCurrent : %d\n"http://en.pardus-wiki.org,current);
    if (argc >= 2) {
        new = current;
        if (!strcmp(argv[1],"http://en.pardus-wiki.orgplus"http://en.pardus-wiki.org))
            new = limited(current + 10);
        if (!strcmp(argv[1],"http://en.pardus-wiki.orgminus"http://en.pardus-wiki.org))
            new = limited(current - 10);
        if (!strcmp(argv[1],"http://en.pardus-wiki.orgset"http://en.pardus-wiki.org) && argc==3)
            new = limited((int)argv[2]);
        if (new != current) {
            printf("http://en.pardus-wiki.orgNew : %d\n"http://en.pardus-wiki.org,new);
            fprintf(fp,"http://en.pardus-wiki.org%d"http://en.pardus-wiki.org,new);
        }
    }
    else printf("http://en.pardus-wiki.orgUsage : %s plus or minus\n"http://en.pardus-wiki.org,arg
    fclose(fp);
    return 0;
}
```

LCD Backlight Settings

You can use the following C code with *gcc -O2 -o setbrigth setbright.c*

```
#include <stdio.h>
#include <sys/io.h>
#include <stdlib.h>
#include <string.h>

int limited(int inp) {
```

```
    if (inp<0) return 0;
    if (inp>15) return 15;
    return inp;
}

int main(int argc, char *argv[]) {
    int current, new;
    if (ioperm(0xB2, 0xB3, 1) < 0) {
        perror("http://en.pardus-wiki.orgioperm failed (you should be root)."http://en.pardus-wiki
        exit(1);
    }
    outb(0x03, 0xB3);
    outb(0xBF, 0xB2);
    current = inb(0xB3) >> 4;
    printf("http://en.pardus-wiki.orgCurrent: %d\n"http://en.pardus-wiki.org,current);
    if (argc >= 2) {
        new = current;
        if (!strcmp(argv[1],"http://en.pardus-wiki.orgminus"http://en.pardus-wiki.org))
            new = limited(current - 1);
        if (!strcmp(argv[1],"http://en.pardus-wiki.orgplus"http://en.pardus-wiki.org))
            new = limited(current + 1);
        if (!strcmp(argv[1],"http://en.pardus-wiki.orgset"http://en.pardus-wiki.org) && argc == 3)
            new = limited(atoi(argv[2]));
        if (new != current) {
            printf("http://en.pardus-wiki.orgNew: %d\n"http://en.pardus-wiki.org,new);
            outb(0x04 | (new << 4), 0xB3);
            outb(0xBF, 0xB2);
        }
    }
    else printf("http://en.pardus-wiki.orgUsage : %s plus or minus\n"http://en.pardus-wiki.org,arg
    return 0;
}
```