

Efficient Bug Reporting

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1 Efficient Bug Report Draft

A smooth bug report is so valuable for its developer or maintainer. Therefore, the first thing, you should read the informations on this document very carefully:

- <http://bugs.pardus.org.tr/page.cgi?id=bug-writing.html#why>
- For the description part of bugzilla, a template is prepared. All Pardus testers will use this template to report bugs. In Description textbox

Reproducible: (Always or arbitrary)

Give a short description of the bug here.

Steps to reproduce:

1. First step.
2. Second step
3. ...

Actual results: Describe the actual results here. You can add the bug outputs.

Expected results: Describe the expected according your computer hardware and system settings.

- An efficient bug reporting example:

http://bugs.pardus.org.tr/show_bug.cgi?id=10043

- And also don't forget to propose your solution/patch If you think you solved the problem.
- If you can't figure out to which product you have to assign the bug but know the name of the application, you can find it with the following command:

```
pisi sf 'which <filename>'
```

The filename is the name of the file(a configuration file, a library, an executable application, etc.) which seems problematic to you.

Let's assume that the systemsettings application crashes when trying to switch the color scheme but you don't know which package actually ships systemsettings. Just type the command below to find it out:

```
pisi sf 'which systemsettings'
Searching for /usr/kde/4/bin/systemsettings
Package kdebase-workspace has file usr/kde/4/bin/systemsettings
```

So this means that, the bug should be assigned to the kdebase-workspace package.

- **The attachments are also important for developers in order to completely understand the problem:**

Attention: You have to switch to the root user in order to correctly execute some of the commands below. Type the following command and enter your root password:

```
su -
```

1. For X server related bugs:

- The outputs of the following commands should be attached:

```
lspci -nn > lspci.txt
dmesg > dmesg.txt
lsmod > lsmod.txt
```

- If the computer or the keyboard is still alive, it's really useful to also grab the X server logs:

```
cat /var/log/Xorg.0.log > xserver.txt
```

- If not, restart your computer and open it in vesa mode and take the log from:

```
cat /var/log/Xorg.0.log.old
```

For all outputs, if X crashed, you can take the outputs of these command with the below procedure.

- * Plug an usb stick to the computer.

- * Mount it manually.

```
mount /dev/<your_usb_stick_partition> /mnt/flash
```

- * Copy the outputs to /mnt/flash

```
cp <output> /mnt/flash
```

- * Unmount it manually.

```
umount /dev/<your_usb_stick_partition>
```

2. For Pardus specific applications' bugs:

COMAR's log file is really helping in a lot of situations:

```
cat /var/log/comar3/trace.log > comar.txt
```

- For network-manager:
 - `lspci -nn > lspci.txt`
 - * Ethernet specific problems:
 - `ifconfig -a > ifconfig.txt`
 - * Wireless specific problems:
 - `iwconfig > iwconfig.txt`
 - For disk-manager:
 - `fdisk -l > fdisk.txt`
 - `cat /etc/fstab > fstab.txt`
 - For service-manager:
 - `service -N > service.txt`
 - For boot-manager:
 - `cat /boot/grub/grub.conf > grub.txt`
 - For firewall-manager:
 - `service -N > service.txt`
 - `iptables > iptables.txt`
3. For camera/video device related problems:
- The outputs of these commands should be attached after closing all applications which may use the camera device:
- `dmesg > dmesg.txt`
 - `cat /var/log/syslog > syslog.txt`
 - `lsusb > lsusb.txt`
 - `test-webcam > webcam.txt`
4. For sound card related problems:
- Run the following command as root user and write down the WWW link that it gives you at the end:
- `alsa-info`