



EXPLORING OUR BUGS

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HOUSEKEEPING

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Nice things: @FunnelFiasco

Not-nice things: /dev/null

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WHAT IS THIS TALK?

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A LOOK AT FEDORA BUGS

- From Fedora Linux 19 through Fedora Linux 32
 - Does not include Rawhide bugs
- Based on curiosity, not convincing
- Asks more questions than it answers

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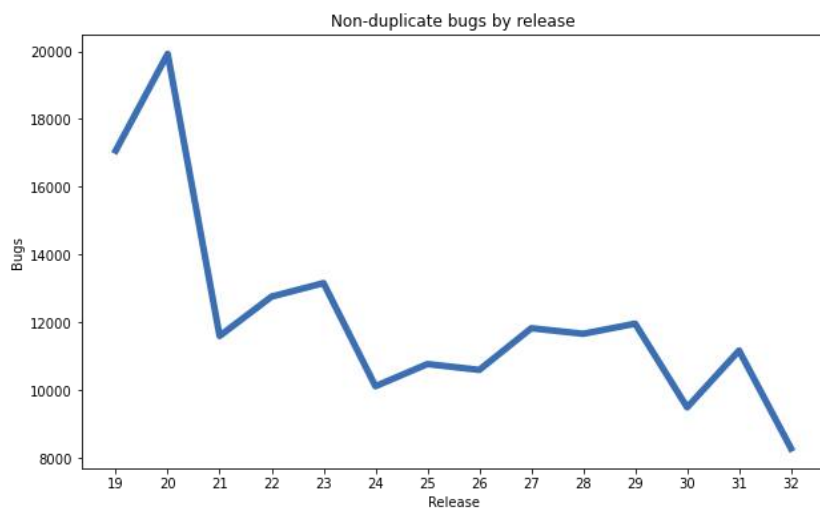
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THE BASICS

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BUG REPORTS PER RELEASE



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BUGS PER COMPONENT: TOP 10

Component	Bugs
kernel	9028
selinux-policy	6477
gnome-shell	3645
anaconda	3079
dnf	1925
systemd	1488
firefox	1468
nautilus	1450
xorg-x11-server	1298
PackageKit	1140

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BUGS PER COMPONENT: BOTTOM 10

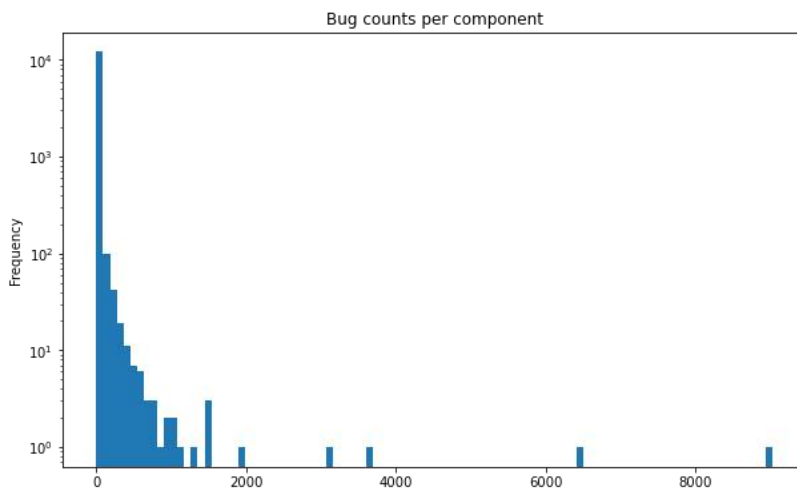
- 12,082 (98.44%) components with < 100 bugs
- 10,549 (85.95%) components with < 10 bugs

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BUGS PER COMPONENT



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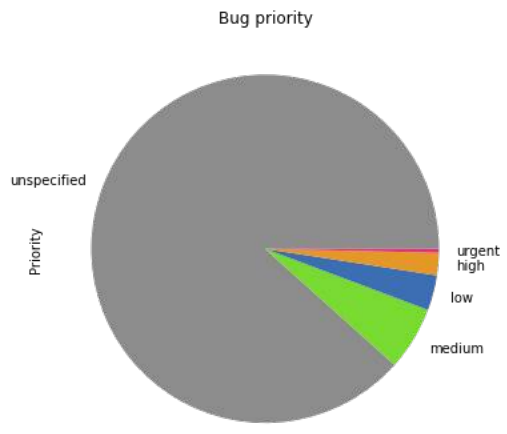
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PRIORITY AND SEVERITY

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BUG PRIORITY



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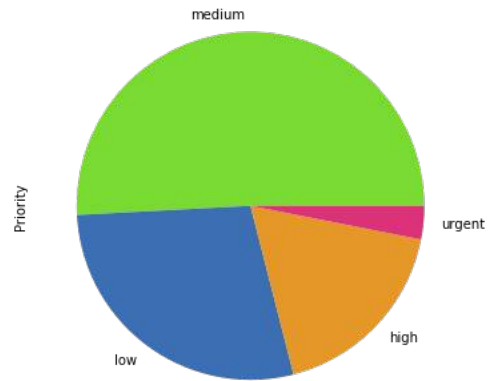
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BUG PRIORITY (WHEN SPECIFIED)



Bug priority (unspecified excluded)

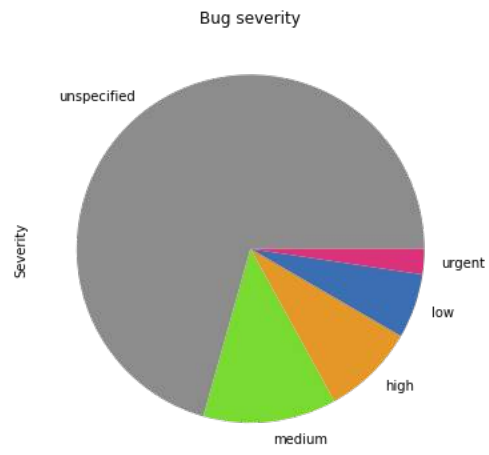


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BUG SEVERITY



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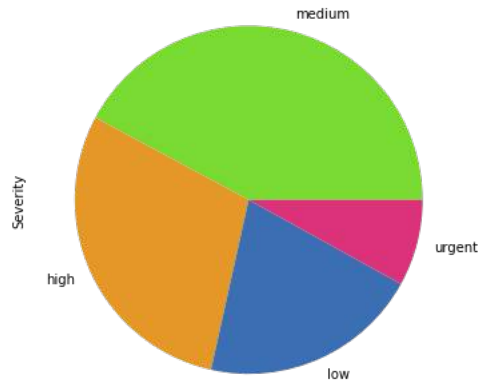
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BUG SEVERITY (WHEN SPECIFIED)



Bug severity (unspecified excluded)



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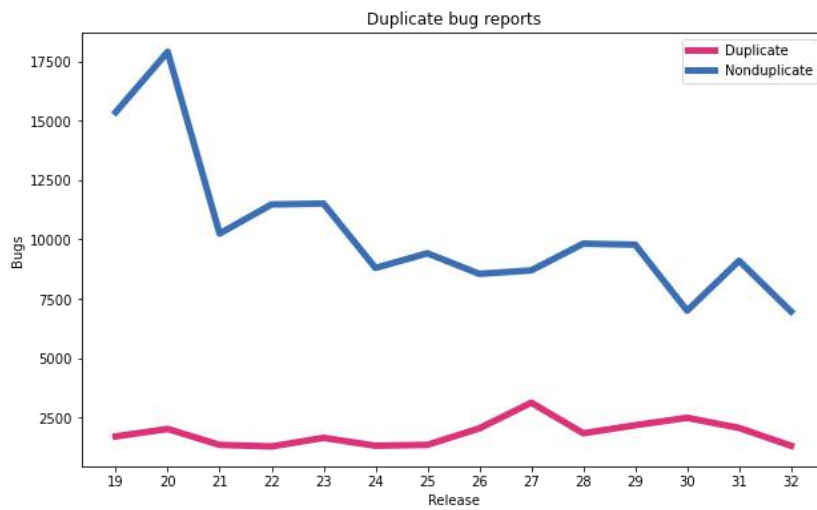
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DUPLICATE BUGS

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DUPLICATE BUG REPORTS

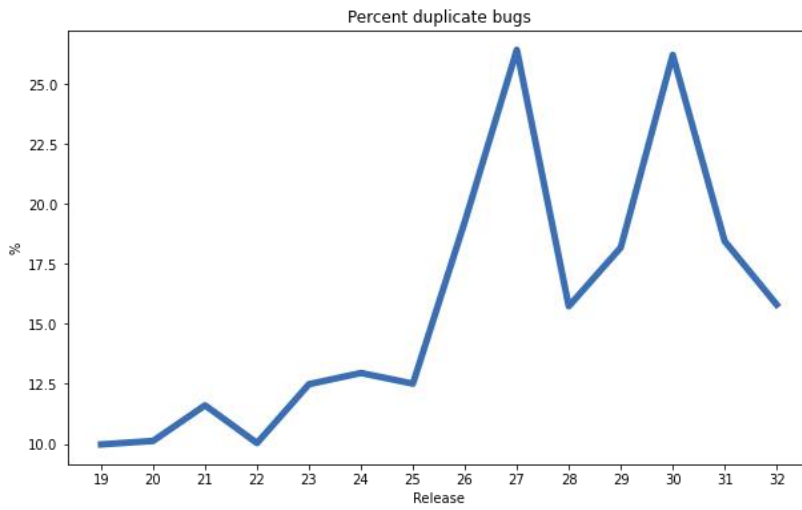


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% DUPLICATE BUG REPORTS



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FEWEST DUPLICATES PER COMPONENT

Component	Duplicates
xen	0.65%
ansible	0.77%
389-ds-base	1.05%
btrfs-progs	1.22%
synergy	1.22%
kubernetes	1.32%
gtk2	1.39%
procps-ng	1.56%
binutils	1.59%
snigd	1.60%

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OOPS! ALL DUPLICATES!

- 63 components have a 100% duplicate count

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MOST DUPLICATES PER COMPONENT

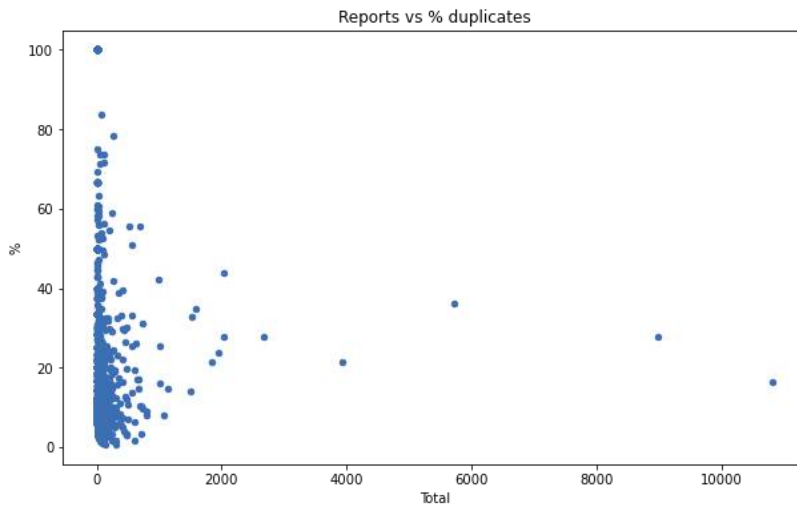
Component	Duplicates
tpm2-arbrmd	83.82%
open-vm-tools	78.46%
pypoppler	75.00%
glib-networking	73.68%
libgnomekbd	73.59%
kf5-kglobalaccel	71.56%
imsettings	71.43%
gq	69.23%
python-PyGithub	66.67%
NearTree	66.67%

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HOW TO GET MORE DUPLICATES?



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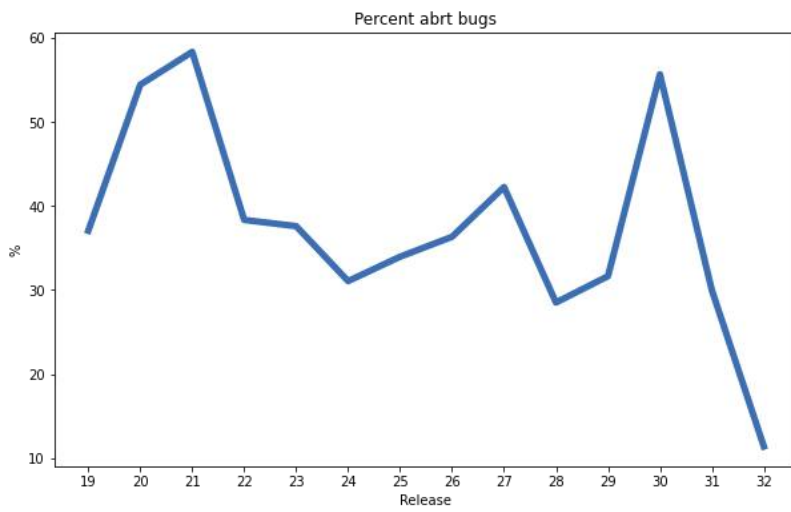
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ABRT REPORTS

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PERCENT OF BUGS FROM ABRT

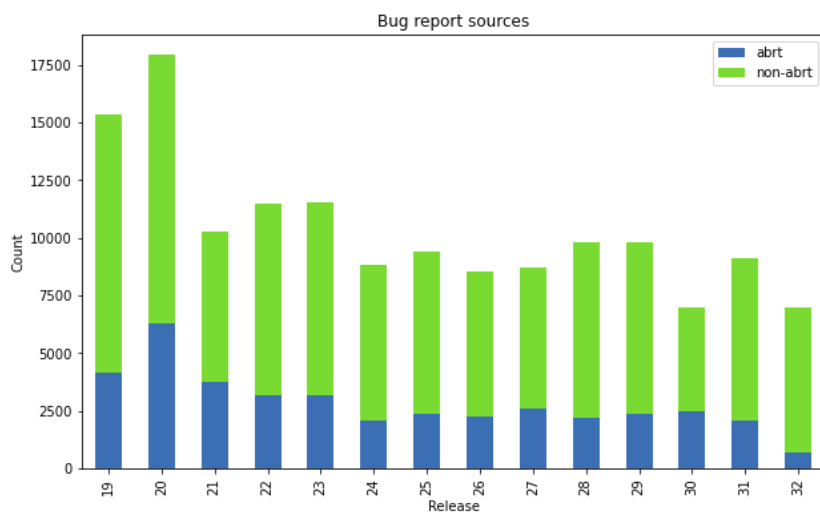


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BUG REPORT SOURCES



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BUG RESOLUTION

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CATEGORIZING CLOSURES

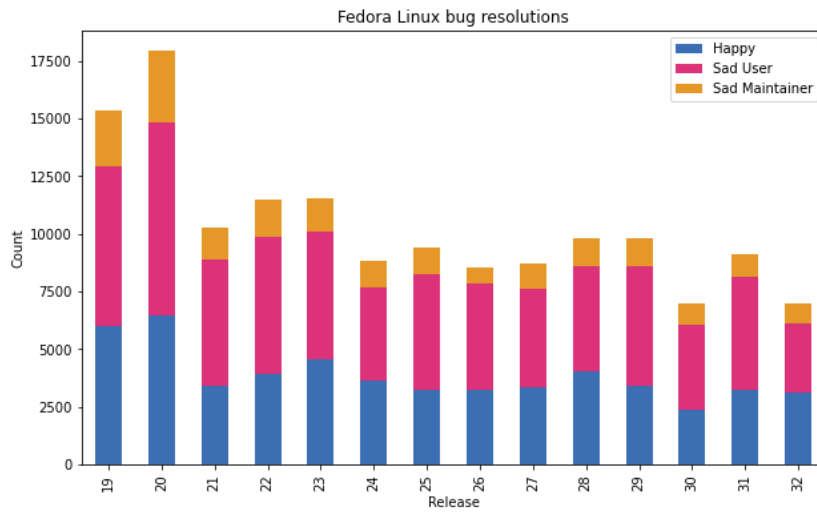
- Happy resolutions: CURRENTRELEASE, ERRATA, NEXTRELEASE, RAWHIDE, UPSTREAM
- Sad user resolutions: CANTFIX, DEFERRED, EOL, WONTFIX
- Sad maintainer resolutions: INSUFFICIENT_DATA, NOTABUG, WORKSFORME
- DUPLICATE is excluded here

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CLOSURES BY CATEGORY

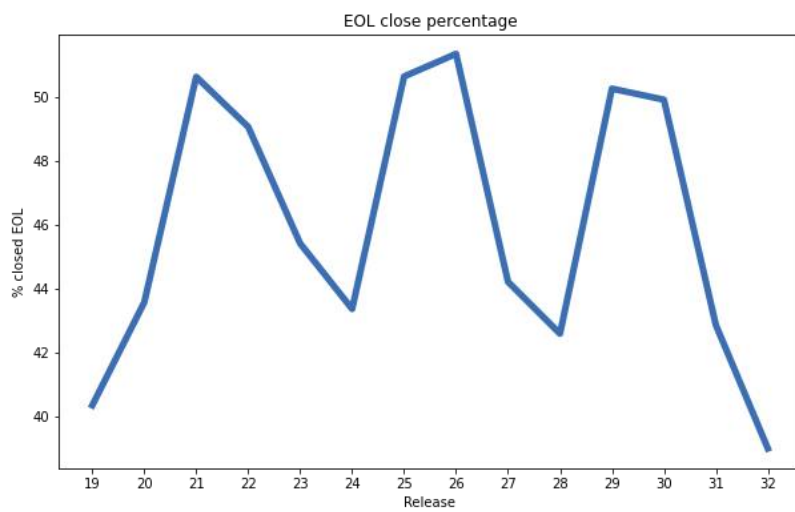


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EOL CLOSURE PERCENTAGE



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LOWEST EOL CLOSURES

Component	EOL closures
curl	0.97%
fedora-obsolete-packages	1.54%
opensc	2.00%
jackson-databind	2.04%
mupdf	2.27%
python-bugzilla	2.94%
gnutls	3.00%
nextcloud-client	3.00%
python2	3.03%
LibRaw	3.13%

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ONLY EOL

- 2,062 components have 100% (non-duplicate) EOL closure

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HIGHEST NOT-100% EOL CLOSURES

Component	EOL closures
xarchiver	98.36%
tracker-miners	98.10%
ekiga	98.00%
kactivitymanagerd	97.83%
telepathy-haze	97.73%
telepathy-idle	96.77%
glade	96.20%
dleyna-renderer	95.96%
matio	95.65%
supertux	95.65%

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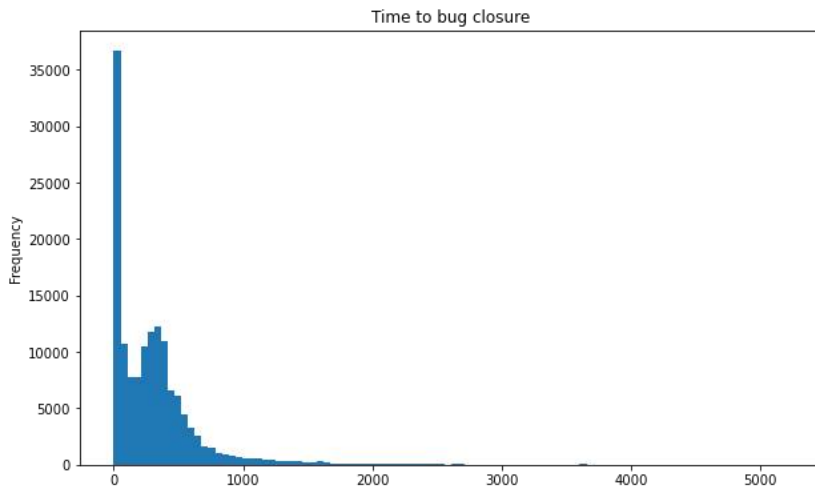
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TIME TO RESOLUTION (TTR)

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TTR

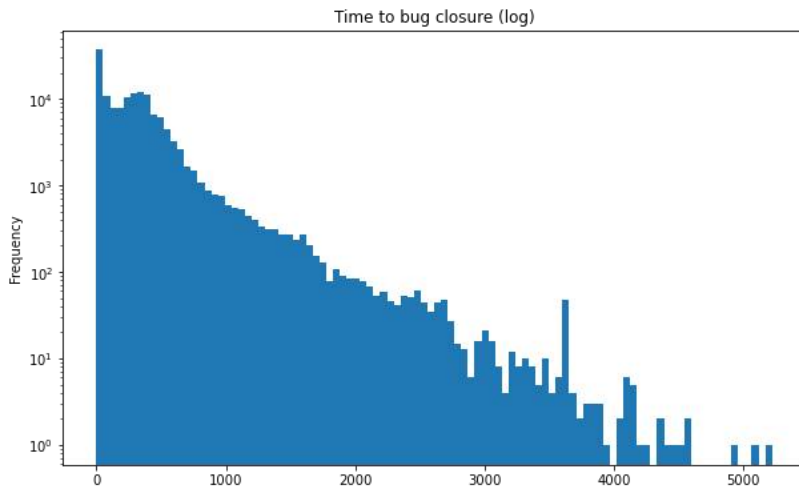


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TRR (LOG)

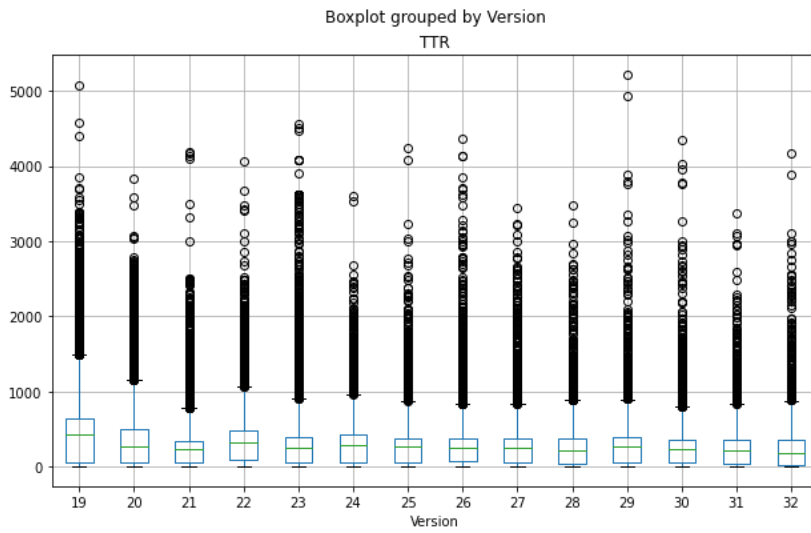


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TTR BY RELEASE

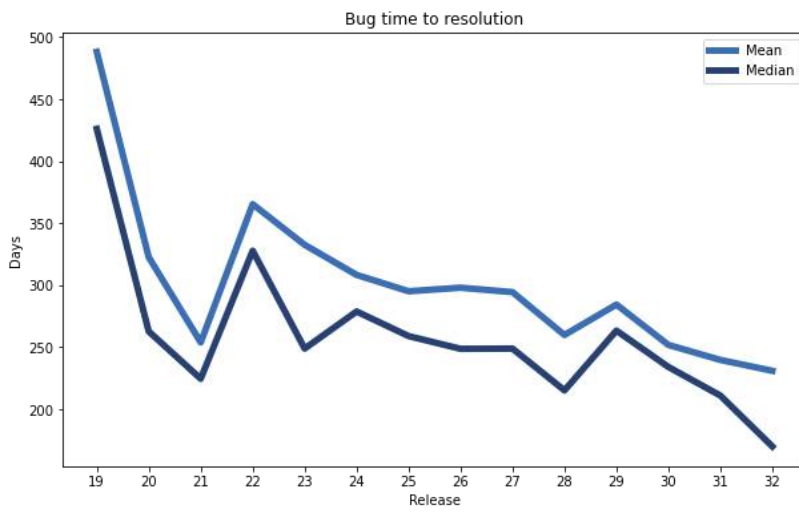


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MEAN/MEDIAN TTR



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10 LOWEST MEDIAN TTR BY COMPONENT

Component	TTR (days)
golang-github-coreos-systemd	0.003
kipi-plugins	0.003
wmweather	0.003
darkice	0.004
marble-widget	0.005
php-simplesamlphp-saml2_1	0.006
deepin-tool-kit	0.007
gwe	0.008
mingw-crt	0.009
ipw2200-firmware	0.010

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10 HIGHEST MEDIAN TTR BY COMPONENT

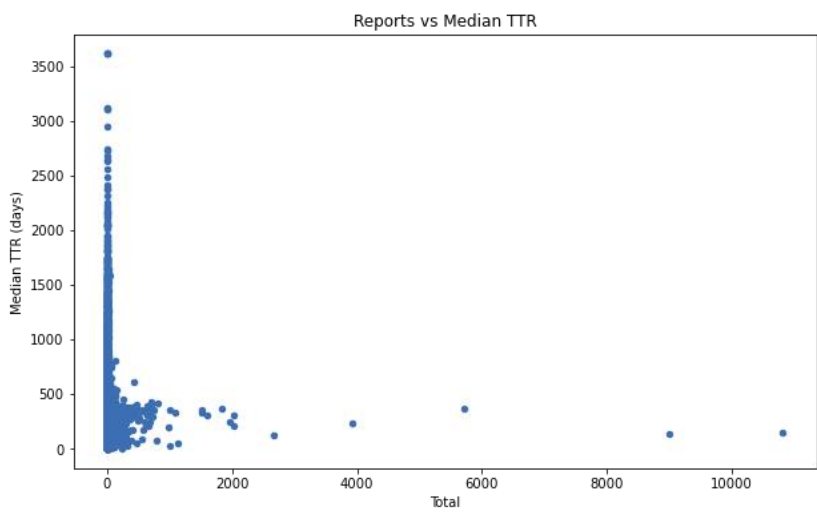
Component	TTR (days)
esound	3610.7
gtk-sharp2	3610.7
java_cup	3610.7
mx	3610.7
fonts-KOI8-R	3115.6
libdaemon	3107.9
xorg-x11-xf86-input-libinput	3101.7
libgnomeui	2948.3
fedora-package-config-smart	2742.0
libzdb	2724.7

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REPORTS VS MEDIAN TTR



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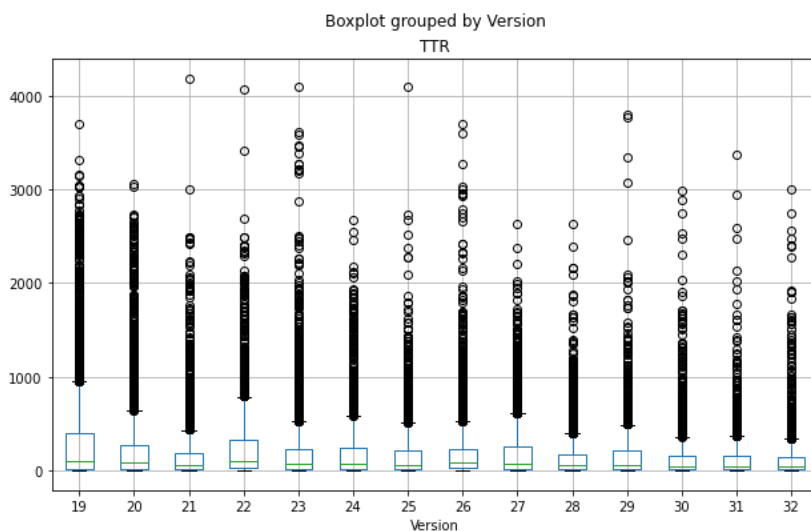
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HAPPY TTR

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HAPPY TTR BY RELEASE

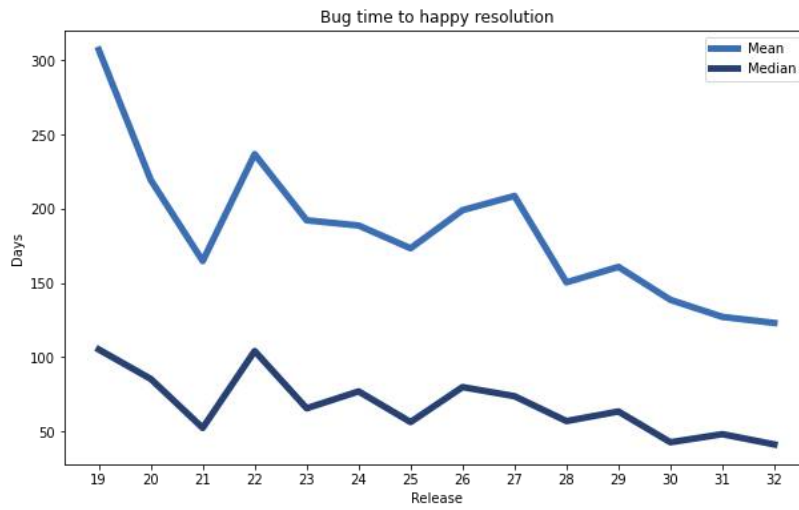


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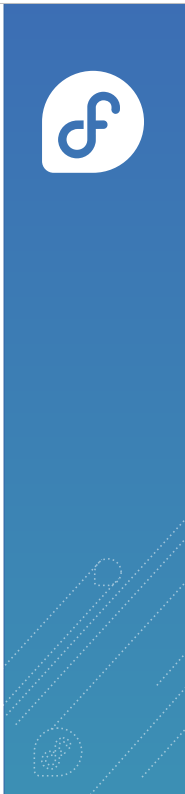


MEAN/MEDIAN HAPPY TTR BY RELEASE



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10 LOWEST MEDIAN HAPPY TTR

Component	TTR (days)
biosdevname	0.001
golang-github-coreos-systemd	0.003
kde-cli-tools	0.005
spice-html5	0.005
kf5-kirigami	0.007
gwe	0.008
php-tcpdf	0.008
date	0.011
system-config-audit	0.013
akregator	0.014

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10 HIGHEST MEDIAN HAPPY TTR

Component	TTR (days)
module-init-tools	3694.8
gamin	3198.8
bowtie	3002.8
nodejs-request	2718.8
radeontool	2718.5
poster	2684.5
tidy	2466.2
nodejs-jade	2410.1
nodejs-highlight-js	2389.0
nodejs-qs	2233.9

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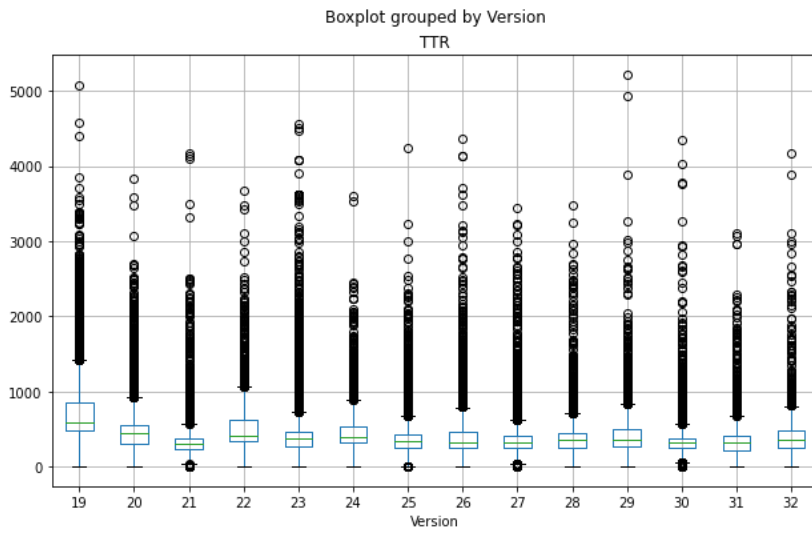
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SAD USER TTR

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SAD USER TTR BY RELEASE

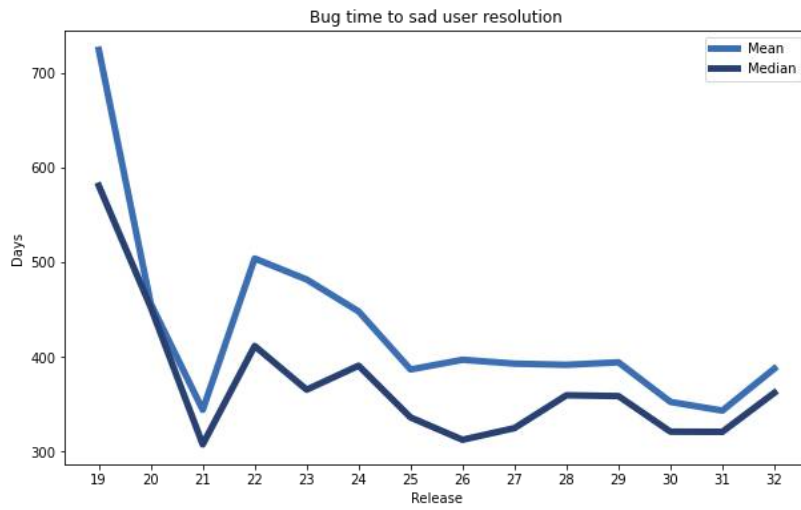


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ME{AN,EDIAN} SAD USER TTR BY RELEASE



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10 LOWEST SAD USER TTR

Component	TTR (days)
libmpd	0.002
darkice	0.004
relval	0.006
apache-commons-compress	0.008
perl-local-lib	0.009
polkit-qt	0.013
glassfish-hk2	0.017
xmlunit	0.017
jackrabbit	0.020
ssldump	0.023

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10 HIGHEST SAD USER TTR

Component	TTR (days)
perl-RPM2	4128.4
dmidecode	3610.7
epic	3610.7
esound	3610.7
gtk-sharp2	3610.7
java_cup	3610.7
libtheora	3610.7
mx	3610.7
Pyrex	3610.6
ytnef	3481.7

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WHAT'S NEXT?

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WHY DIDN'T YOU INCLUDE ___?

- Version changes
- Assignees
- Freeze process

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COMING SOON

- Community Blog post(s)
- Your theories
- Probably more graphs!

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EXPLORE IT YOURSELF

- <https://pagure.io/fedora-pgm/fedora-bug-data>



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