ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

ITS computer classrooms and labs: Linux software bundle

Version: HS 2020 – The rooms are supervised by ITS Service Delivery - Managed Services

Linux software bundle

The Linux-OS on all machines is Fedora 24. You will find standard applications in these categories:
- Accessories
- Graphics
- Education
- Electronics
- Internet
- Office
- Programming
- Sound and Video
- System Tools

Software not included in the following list, has to be requested **at least four weeks before the course date**.

Please note, that there will be no installation of new software shortly before and during ETH session examinations (calendar weeks 2-7 and 30-35).

Software must be ordered by using the Service Desk online form.

If you want to organise an exam using these computers, please contact Educational Development and Technology (LET).

Installed Packages & libraries

4ti2.x86_64	1.6.9-4.fc31
4ti2-libs.x86_64	1.6.9-4.fc31
BibTool.x86_64	2.67-11.fc31
CGAL.x86_64	4.14.2-1.fc31
CGAL-devel.x86_64	4.14.2-1.fc31
CharLS.x86_64	1.0-19.fc31
DevIL.x86_64	1.7.8-33.fc31
Field3D.x86_64	1.7.2-16.fc31
GConf2.x86_64	3.2.6-27.fc31

GraphicsMagick.x86_64	1.3.34-1.fc31
GraphicsMagick-c++.x86_64	1.3.34-1.fc31
ImageMagick.x86_64	1:6.9.10.86-1.fc31
ImageMagick-c++.x86_64	1:6.9.10.86-1.fc31
ImageMagick-libs.x86_64	1:6.9.10.86-1.fc31
ImageMagick-perl.x86_64	1:6.9.10.86-1.fc31
LibRaw.x86_64	0.19.5-1.fc31
Lmod.x86_64	8.1.17-4.fc31
MUMPS.x86_64	5.2.1-2.fc31
MUMPS-common.noarch	5.2.1-2.fc31
Macaulay2.x86_64	1.14.0.1-1.fc31
Mayavi.x86_64	4.6.2-7.fc31
ModemManager-glib.x86_64	1.10.6-2.fc31
NetworkManager.x86_64	1:1.20.10-1.fc31
NetworkManager-libnm.x86_64	1:1.20.10-1.fc31
NetworkManager-opencon-nect.x86_64	1.2.6-2.fc31
NetworkManager-wifi.x86_64	1:1.20.10-1.fc31
OpenColorIO.x86_64	1.1.1-4.fc31
OpenEXR-libs.x86_64	2.3.0-4.fc31
OpenImageIO.x86_64	2.0.13-1.fc31
PEGTL-devel.x86_64	2.8.0-1.fc31
PackageKit.x86_64	1.1.12-11.fc31
PackageKit-Qt5.x86_64	1.0.1-4.fc31
PackageKit-glib.x86_64	1.1.12-11.fc31
R.x86_64	3.6.2-1.fc31
R-core.x86_64	3.6.2-1.fc31
R-core-devel.x86_64	3.6.2-1.fc31
R-devel.x86_64	3.6.2-1.fc31
R-java.x86_64	3.6.2-1.fc31
R-java-devel.x86_64	3.6.2-1.fc31
R-rpm-macros.noarch	1.1.0-2.fc31
SDL.x86_64	1.2.15-42.fc31
SDL2.x86_64	2.0.10-1.fc31
SuperLU.x86_64	5.2.1-7.fc31
TOPCOM.x86_64	0.17.8-10.fc31
TOPCOM-libs.x86_64	0.17.8-10.fc31
Thunar.x86_64	1.8.11-1.fc31
Xaw3d.x86_64	1.6.3-1.fc31
Xnee-libs.x86_64	3.19-11.fc31
a2ps.x86_64	4.14-41.fc31
aalib-libs.x86_64	1.4.0-0.37.rc5.fc31

abattis-cantarell-fonts.noarch	0.111-3.fc31
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accountsservice-libs.x86_64	0.6.55-1.fc31
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acpid.x86_64	2.0.32-1.fc31
adcli.x86_64	0.8.2-7.fc31
adobe-mappings-cmap.noarch	20171205-6.fc31
adobe-mappings-cmap-depre-cated.noarc	h
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adobe-mappings-pdf.noarch	20180407-4.fc31
adobe-source-code-pro-fonts.no-arch	2.030.1.050-7.fc31
adwaita-cursor-theme.noarch	3.34.3-1.fc31
adwaita-gtk2-theme.x86_64	3.28-6.fc31
adwaita-icon-theme.noarch	3.34.3-1.fc31
aisleriot.x86_64	1:3.22.9-2.fc31
akonadi.x86_64	1.13.0-114.fc31
akonadi-import-wizard.x86_64	19.04.3-2.fc31
akregator.x86_64	19.04.3-2.fc31
akregator-libs.x86_64	19.04.3-2.fc31
alembic-libs.x86_64	1.7.12-1.fc31
alpine.x86_64	2.21-11.fc31
alsa-lib.x86_64	1.2.1.2-4.fc31
alsa-plugins-pulseaudio.x86_64	1.2.1-1.fc31
alsa-utils.x86_64	1.2.1-3.fc31
alternatives.x86_64	1.11-5.fc31
annobin.x86_64	8.78-2.fc31
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ant-antlr.noarch	1.10.5-3.mo-dule_f28+4207+d722d224 -mo-dular
ant-apache-bcel.noarch	1.10.5-3.mo-dule_f28+4207+d722d224 -mo-dular
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ant-apache-oro.noarch	1.10.5-3.mo-dule_f28+4207+d722d224 -mo-dular

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ant-apache-xalan2.noarch	1.10.5-3.module_f28+4207+d722d224	-modular
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ant-commons-net.noarch	1.10.5-3.module_f28+4207+d722d224	-modular
ant-javamail.noarch	1.10.5-3.module_f28+4207+d722d224	-modular
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antlr32-java.noarch	3.2-22.module_f31+6793+1c93c38e	
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apache-commons-codec.noarch	1.11-3.module_f29+6921+ca3ed728	
apache-commons-compress.noarch	1.18-6.module_f31+6793+1c93c38e	

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apache-commons-io.noarch	1:2.6-3.mo-dule_f29+6921+ca3ed728
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apr-util-openssl.x86_64	1.6.1-11.fc31
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arpack.x86_64	3.5.0-6.fc28
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automake.noarch	1.16.1-13.fc31
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avahi-libs.x86_64	0.7-20.fc31
avahi-ui-gtk3.x86_64	0.7-20.fc31
avogadro.x86_64	1.2.0-26.fc31
avogadro-libs.x86_64	1.2.0-26.fc31
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batik-util.noarch	1.11-1.module_f31+6793+1c93c38e
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bibutils-libs.x86_64	6.8-1.fc31
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bind-libs-lite.x86_64	32:9.11.14-2.fc31
bind-license.noarch	32:9.11.14-2.fc31
bind-utils.x86_64	32:9.11.14-2.fc31
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binutils-gold.x86_64	2.32-31.fc31
bison.x86_64	3.4.1-2.fc31
bitstream-vera-fonts-common.noarch	1.10-34.fc31
bitstream-vera-sans-fonts.noarch	1.10-34.fc31
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blas-devel.x86_64	3.8.0-13.fc31
blender.x86_64	1:2.81a-3.fc31
blender-fonts.noarch	1:2.81a-3.fc31
blosc.x86_64	1.16.3-2.fc31
bluedevil.x86_64	5.17.5-1.fc31
bluez.x86_64	5.52-1.fc31
bluez-libs.x86_64	5.52-1.fc31
bluez-obexd.x86_64	5.52-1.fc31
bodhi-client.noarch	4.1.0-3.fc31
bolt.x86_64	0.8-2.fc31
boost.x86_64	1.69.0-9.fc31
boost-atomic.x86_64	1.69.0-9.fc31
boost-chrono.x86_64	1.69.0-9.fc31
boost-container.x86_64	1.69.0-9.fc31
boost-context.x86_64	1.69.0-9.fc31
boost-contract.x86_64	1.69.0-9.fc31
boost-coroutine.x86_64	1.69.0-9.fc31
boost-date-time.x86_64	1.69.0-9.fc31
boost-devel.x86_64	1.69.0-9.fc31
boost-fiber.x86_64	1.69.0-9.fc31
boost-filesystem.x86_64	1.69.0-9.fc31
boost-graph.x86_64	1.69.0-9.fc31
boost-iostreams.x86_64	1.69.0-9.fc31
boost-locale.x86_64	1.69.0-9.fc31
boost-log.x86_64	1.69.0-9.fc31
boost-math.x86_64	1.69.0-9.fc31
boost-program-options.x86_64	1.69.0-9.fc31
boost-random.x86_64	1.69.0-9.fc31
boost-regex.x86_64	1.69.0-9.fc31
boost-serialization.x86_64	1.69.0-9.fc31
boost-stacktrace.x86_64	1.69.0-9.fc31
boost-system.x86_64	1.69.0-9.fc31
boost-test.x86_64	1.69.0-9.fc31
boost-thread.x86_64	1.69.0-9.fc31
boost-timer.x86_64	1.69.0-9.fc31
boost-type_erasure.x86_64	1.69.0-9.fc31
boost-wave.x86_64	1.69.0-9.fc31
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bouncycastle-pkix.noarch	1.63-1.module_f31+6793+1c93c38e
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breeze-cursor-theme.noarch	5.17.5-1.fc31
breeze-icon-theme.noarch	5.66.0-1.fc31
brlapi.x86_64	0.7.0-6.fc31
brltty.x86_64	6.0-6.fc31
brotli.x86_64	1.0.7-6.fc31
bsf.noarch	2.4.0-30.mo-dule_f28+3872+5b76729e -mo-dular
bubblewrap.x86_64	0.4.0-1.fc31
byacc.x86_64	1.9.20190617-2.fc31
bzip2.x86_64	1.0.8-1.fc31
bzip2-devel.x86_64	1.0.8-1.fc31
bzip2-libs.x86_64	1.0.8-1.fc31
bzr.x86_64	2.7.0-23.fc30
c-ares.x86_64	1.15.0-4.fc31
ca-certificates.noarch	2019.2.32-3.fc31
cagibi.x86_64	0.2.0-18.fc31
cairo.x86_64	1.16.0-6.fc31
cairo-gobject.x86_64	1.16.0-6.fc31
cairomm.x86_64	1.12.0-11.fc31
caribou.x86_64	0.4.21-19.fc31
caribou-gtk2-module.x86_64	0.4.21-19.fc31
caribou-gtk3-module.x86_64	0.4.21-19.fc31
catdoc.x86_64	0.95-7.fc31
ccache.x86_64	3.7.6-1.fc31
ccrypt.x86_64	1.10-21.fc31
cddlib.x86_64	1:0.94j-4.fc31
cdparanoia-libs.x86_64	10.2-30.fc31
cdrdao.x86_64	1.2.4-3.fc31
cdrskin.x86_64	1.5.2-1.fc31
cfitsio.x86_64	3.470-1.fc31
cgdb.x86_64	0.6.8-14.fc31
cglib.noarch	3.2.9-3.fc31
cgnslib.x86_64	3.4.0-3.fc31
checkpolicy.x86_64	2.9-2.fc31
cheese-libs.x86_64	2:3.34.0-1.fc31
chemical-mime-data.noarch	0.1.94-26.fc31
chmlib.x86_64	0.40-21.fc31
choqok.x86_64	1.6.0-10.fc31
choqok-libs.x86_64	1.6.0-10.fc31
cifs-utils.x86_64	6.9-2.fc31
cjkuni-uming-fonts.noarch	0.2.20080216.1-63.fc31
clang.x86_64	9.0.0-1.fc31

clang-libs.x86_64	9.0.0-1.fc31
clucene-contribs-lib.x86_64	2.3.3.4-35.20130812.e8e3d20git.fc31
clucene-core.x86_64	2.3.3.4-35.20130812.e8e3d20git.fc31
clutter.x86_64	1.26.2-9.fc31
clutter-gst3.x86_64	3.0.27-2.fc31
clutter-gtk.x86_64	1.8.4-6.fc31
cmake.x86_64	3.16.2-1.fc31
cmake-data.noarch	3.16.2-1.fc31
cmake-filesystem.x86_64	3.16.2-1.fc31
cmake-rpm-macros.noarch	3.16.2-1.fc31
cnee.x86_64	3.19-11.fc31
cocoalib.x86_64	0.99650-1.fc31
code.x86_64	1.43.2-1585036535.el7 @code
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codeblocks-libs.x86_64	17.12-14.fc31
cogl.x86_64	1.22.4-2.fc31
cohomCalg.x86_64	0.32-5.fc31
coin-or-Cbc.x86_64	2.10.3-2.fc31
coin-or-Cgl.x86_64	0.60.2-2.fc31
coin-or-Clp.x86_64	1.17.3-3.fc31
coin-or-CoinUtils.x86_64	2.11.3-2.fc31
coin-or-Osi.x86_64	0.108.5-1.fc31
color-filesystem.noarch	1-23.fc31
colord.x86_64	1.4.4-2.fc31
colord-gtk.x86_64	0.2.0-2.fc31
colord-libs.x86_64	1.4.4-2.fc31
compat-lua-libs.x86_64	5.1.5-15.fc31
compat-openssl10.x86_64	1:1.0.2o-8.fc31
compat-wxGTK3-gtk2.x86_64	3.0.4-10.fc31
compiler-rt.x86_64	9.0.0-1.fc31
conda.noarch	4.8.0-1.fc31
conky.x86_64	1.11.5-1.fc31
copy-jdk-configs.noarch	3.7-4.fc31
coreutils.x86_64	8.31-6.fc31
coreutils-common.x86_64	8.31-6.fc31
cpio.x86_64	2.12-12.fc31
cpp.x86_64	9.2.1-1.fc31
cpp-hocon.x86_64	0.2.1-1.fc31
cracklib.x86_64	2.9.6-21.fc31
cracklib-dicts.x86_64	2.9.6-21.fc31
cronie.x86_64	1.5.4-2.fc31

cronie-anacron.x86_64	1.5.4-2.fc31
crontabs.noarch	1.11-21.20190603git.fc31
crypto-policies.noarch	20191128-2.gitcd267a5.fc31
cryptsetup-libs.x86_64	2.2.2-1.fc31
cscope.x86_64	15.9-5.fc31
csdp.x86_64	6.2.0-7.fc31
csdp-tools.x86_64	6.2.0-7.fc31
ctags.x86_64	5.8-26.fc31
cups.x86_64	1:2.2.12-3.fc31
cups-client.x86_64	1:2.2.12-3.fc31
cups-filesystem.noarch	1:2.2.12-3.fc31
cups-filters.x86_64	1.22.5-10.fc31
cups-filters-libs.x86_64	1.22.5-10.fc31
cups-ipptool.x86_64	1:2.2.12-3.fc31
cups-libs.x86_64	1:2.2.12-3.fc31
cups-pdf.x86_64	3.0.1-8.fc31
cups-pk-helper.x86_64	0.2.6-8.fc31
curl.x86_64	7.66.0-1.fc31
cvs.x86_64	1.11.23-52.fc31
cyrus-sasl-gssapi.x86_64	2.1.27-2.fc31
cyrus-sasl-lib.x86_64	2.1.27-2.fc31
cyrus-sasl-plain.x86_64	2.1.27-2.fc31
dbus.x86_64	1:1.12.16-3.fc31
dbus-broker.x86_64	21-6.fc31
dbus-common.noarch	1:1.12.16-3.fc31
dbus-daemon.x86_64	1:1.12.16-3.fc31
dbus-glib.x86_64	0.110-6.fc31
dbus-java.x86_64	2.7-30.fc31
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dbus-tools.x86_64	1:1.12.16-3.fc31
dbus-x11.x86_64	1:1.12.16-3.fc31
dbusmenu-qt.x86_64	0.9.3-0.21.20160218.fc31
dbusmenu-qt5.x86_64	0.9.3-0.21.20160218.fc31
dcmtk.x86_64	3.6.4-2.fc31
dconf.x86_64	0.34.0-1.fc31
dconf-editor.x86_64	3.34.3-1.fc31
ddd.x86_64	3.3.12-33.fc31
dee.x86_64	1.2.7-25.fc31
deja-dup.x86_64	40.6-1.fc31
deja-dup-nautilus.x86_64	40.6-1.fc31
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jakarta-oro.noarch	2.0.8-23.mo-dule_f28+3872+5b76729e -mo-dular
jansi.noarch	1.17.1-1.mo-dule_f29+6921+ca3ed728
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jetty-security.noarch	9.4.24-2.v20191120.mo-dule_f31+7243+50fb5b11
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jffi-native.x86_64	1.2.12-11.mo-dule_f31+6793+1c93c38e
jgit.noarch	5.5.0-1.mo-dule_f31+6793+1c93c38e
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jnr-enxio.noarch	0.19-2.module_f31+6793+1c93c38e
jnr-ffi.noarch	2.1.8-4.module_f31+6793+1c93c38e
jnr-netdb.noarch	1.1.6-5.module_f31+6793+1c93c38e
jnr-posix.noarch	3.0.47-2.module_f31+6793+1c93c38e
jnr-unixsocket.noarch	0.21-2.module_f31+6793+1c93c38e
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libgnomekbd.x86_64	3.26.1-2.fc31
libgomp.x86_64	9.2.1-1.fc31
libgpg-error.x86_64	1.36-2.fc31
libgphoto2.x86_64	2.5.23-1.fc31
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libgpuarray.x86_64	0.7.6-4.fc31
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libgsf.x86_64	1.14.43-5.fc31
libgta.x86_64	1.0.9-3.fc31
libgtop2.x86_64	2.40.0-2.fc31
libgudev.x86_64	232-6.fc31
libgusb.x86_64	0.3.2-1.fc31
libgweather.x86_64	3.34.0-1.fc31
libgxps.x86_64	0.3.1-4.fc31
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libibverbs.x86_64	20.1-5.fc31
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libicu-devel.x86_64	63.2-3.fc31
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libiptcdata.x86_64	1.0.5-2.fc31
libjpeg-turbo.x86_64	2.0.2-5.fc31
libjpeg-turbo-devel.x86_64	2.0.2-5.fc31
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libselinux-utils.x86_64	2.9-5.fc31
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libssh2.x86_64	1.9.0-3.fc31
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libsss_idmap.x86_64	2.2.2-3.fc31
libsss_nss_idmap.x86_64	2.2.2-3.fc31
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libstdc++-devel.x86_64	9.2.1-1.fc31
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libtommath.x86_64	1.0.1-10.fc31
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libunistring.x86_64	0.9.10-6.fc31
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libvpx.x86_64	1.8.2-1.fc31
libvterm.x86_64	0.1.1-2.fc31
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libwacom-data.noarch	1.1-2.fc31
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libwayland-cursor.x86_64	1.17.0-2.fc31
libwayland-egl.x86_64	1.17.0-2.fc31
libwayland-server.x86_64	1.17.0-2.fc31
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libwmf-lite.x86_64	0.2.12-2.fc31
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libwps.x86_64	0.4.10-3.fc31

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libxcrypt-devel.i686	4.4.10-2.fc31
libxcrypt-devel.x86_64	4.4.10-2.fc31
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libxfce4util.x86_64	4.14.0-1.fc31
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libxkbcommon-x11.x86_64	0.9.1-3.fc31
libxkbfile.x86_64	1.1.0-2.fc31
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linux-firmware-whence.noarch	20191022-103.fc31
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lklug-fonts.noarch	0.6-20.20090803cvs.fc31
lksctp-tools.x86_64	1.0.16-12.fc31
lldb.x86_64	9.0.0-1.fc31
llvm-libs.x86_64	9.0.0-1.fc31
lm_sensors-libs.x86_64	3.5.0-6.fc31
lmdb-libs.x86_64	0.9.23-3.fc31
lockdev.x86_64	1.0.4-0.32.20111007git.fc31

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lohit-gujarati-fonts.noarch	2.92.4-8.fc31
lohit-kannada-fonts.noarch	2.5.4-7.fc31
lohit-tamil-fonts.noarch	2.91.3-8.fc31
lohit-telugu-fonts.noarch	2.5.5-7.fc31
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lrslib-utils.x86_64	7.0-4.fc31
lsof.x86_64	4.93.2-2.fc31
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lua-json.noarch	1.3.2-13.fc31
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lua-lpeg.x86_64	1.0.2-1.fc31
lua-posix.x86_64	33.3.1-14.fc31
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lua-term.x86_64	0.07-9.fc31
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lucene-misc.noarch	8.1.1-3.module_f31+7243+50fb5b11
lucene-queries.noarch	8.1.1-3.module_f31+7243+50fb5b11
lucene-queryparser.noarch	8.1.1-3.module_f31+7243+50fb5b11
lucene-sandbox.noarch	8.1.1-3.module_f31+7243+50fb5b11
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tzdata-java.noarch	2019c-1.fc31
u2f-hidraw-policy.x86_64	1.0.2-10.fc31
ucx.x86_64	1.6.1-1.fc31
udisks2.x86_64	2.8.4-3.fc31
unar.x86_64	1.10.1-12.fc31
unbound-libs.x86_64	1.9.6-1.fc31
unibilium.x86_64	2.0.0-5.fc31
uniconvertor.x86_64	2.0-0.19.svn362.fc31
units.x86_64	2.19-2.fc31
univocity-parsers.noarch	2.5.5-5.mo-dule_f28+3873+06cd63fa -mo-dular
unixODBC.x86_64	2.3.7-5.fc31
unrar.x86_64	5.8.5-1.fc31 @rpm-fusion-nonfree-updates
unzip.x86_64	6.0-44.fc31
upower.x86_64	0.99.11-2.fc31
uriparser.x86_64	0.9.3-2.fc31

urlview.x86_64	0.9-26.20131022git08767a.fc31
urw-base35-bookman-fonts.no-arch	20170801-13.fc31
urw-base35-c059-fonts.noarch	20170801-13.fc31
urw-base35-d050000l-fonts.no-arch	20170801-13.fc31
urw-base35-fonts.noarch	20170801-13.fc31
urw-base35-fonts-common.no-arch	20170801-13.fc31
urw-base35-fonts-legacy.noarch	20170801-13.fc31
urw-base35-gothic-fonts.noarch	20170801-13.fc31
urw-base35-nimbus-mono-ps-fonts.noar	ch
	20170801-13.fc31
urw-base35-nimbus-roman-fonts.noarch	
	20170801-13.fc31
urw-base35-nimbus-sans-fonts.noarch	20170801-13.fc31
urw-base35-p052-fonts.noarch	20170801-13.fc31
urw-base35-standard-symbols-ps-fonts	.noarch
	20170801-13.fc31
urw-base35-z003-fonts.noarch	20170801-13.fc31
usbmuxd.x86_64	1.1.0-17.fc31
usbutils.x86_64	012-3.fc31
utf8proc.x86_64	2.4.0-2.fc31
util-linux.x86_64	2.34-4.fc31
util-linux-user.x86_64	2.34-4.fc31
uudeview.x86_64	0.5.20-44.fc31
valgrind.x86_64	1:3.15.0-11.fc31
vid.stab.x86_64	1.1.0-12.20190213gitaeabc8d.fc31
vim-X11.x86_64	2:8.2.109-1.fc31
vim-common.x86_64	2:8.2.109-1.fc31
vim-enhanced.x86_64	2:8.2.109-1.fc31
vim-filesystem.noarch	2:8.2.109-1.fc31
vim-minimal.x86_64	2:8.2.109-1.fc31
vino.x86_64	3.22.0-16.fc31
vlc.x86_64	1:3.0.9-28.fc31 @rpmfusion-free-updates
vlc-core.x86_64	1:3.0.9-28.fc31 @rpmfusion-free-updates
vlgothic-fonts.noarch	20141206-15.fc31
vo-amrwbenc.x86_64	0.1.3-10.fc31 @rpm-fusion-free
volume_key-libs.x86_64	0.3.12-4.fc31

volumeicon.x86_64	0.5.1-5.fc31
vpnc.x86_64	0.5.3-36.svn550.fc31
vpnc-script.noarch	20171004-6.git6f87b0f.fc31
vte-profile.x86_64	0.58.3-1.fc31
vte291.x86_64	0.58.3-1.fc31
vtk.x86_64	8.2.0-6.fc31
vtk-devel.x86_64	8.2.0-6.fc31
vtk-java.x86_64	8.2.0-6.fc31
vtk-qt.x86_64	8.2.0-6.fc31
vulkan-loader.x86_64	1.1.114.0-1.fc31
wavpack.x86_64	5.1.0-16.fc31
wcslib.x86_64	6.4-1.fc31
web-assets-filesystem.noarch	5-10.fc31
webkit2gtk3.x86_64	2.26.2-1.fc31
webkit2gtk3-jsc.x86_64	2.26.2-1.fc31
webrtc-audio-processing.x86_64	0.3.1-3.fc31
wget.x86_64	1.20.3-2.fc31
which.x86_64	2.21-15.fc31
whois-nls.noarch	5.5.4-2.fc31
wildmagic5.x86_64	5.17-8.fc31
wireless-regdb.noarch	2019.06.03-5.fc31
wireless-tools.x86_64	1:29-23.fc31
wmctrl.x86_64	1.07-27.fc31
wodim.x86_64	1.1.11-42.fc31
woff2.x86_64	1.0.2-6.fc31
wpa_supplicant.x86_64	1:2.9-2.fc31
wpebackend-fdo.x86_64	1.4.0-2.fc31
wqy-zenhei-fonts.noarch	0.9.46-21.fc31
ws-commons-util.noarch	1.0.2-9.module_f31+6793+1c93c38e
wsdl4j.noarch	1.6.3-14.module_f31+6793+1c93c38e
wv.x86_64	1.2.9-20.fc31
wxBase3.x86_64	3.0.4-10.fc31
wxGTK3.x86_64	3.0.4-10.fc31
wxGTK3-i18n.noarch	3.0.4-10.fc31
wxMaxima.x86_64	19.07.0-2.fc31
x264-libs.x86_64	0.157-12.20190717git34c06d1.fc31 @rpmfusion-free
x265-libs.x86_64	3.1.2-2.fc31 @rpmfusion-free
x2goagent.x86_64	4.1.0.3-5.fc31
x2goclient.x86_64	4.1.2.1-5.fc31

x2goserver.x86_64	4.1.0.3-5.fc31
x2goserver-common.noarch	4.1.0.3-5.fc31
x2goserver-xsession.noarch	4.1.0.3-5.fc31
xalan-j2.noarch	2.7.1-38.module_f28+3872+5b76729e -modular
xapian-core-libs.x86_64	1.4.13-2.fc31
xbacklight.x86_64	1.2.2-3.fc31
xbae.x86_64	4.60.4-29.fc31
xcb-util.x86_64	0.4.0-13.fc31
xcb-util-cursor.x86_64	0.1.3-9.fc31
xcb-util-image.x86_64	0.4.0-13.fc31
xcb-util-keysyms.x86_64	0.4.0-11.fc31
xcb-util-renderutil.x86_64	0.3.9-14.fc31
xcb-util-wm.x86_64	0.4.1-16.fc31
xcb-util-xrm.x86_64	1.3-4.fc31
xclip.x86_64	0.13-8.fc31
xdg-dbus-proxy.x86_64	0.1.2-1.fc31
xdg-desktop-portal.x86_64	1.4.2-3.fc31
xdg-desktop-portal-gtk.x86_64	1.4.0-1.fc31
xdg-desktop-portal-kde.x86_64	5.17.5-1.fc31
xdg-user-dirs.x86_64	0.17-4.fc31
xdg-user-dirs-gtk.x86_64	0.10-16.fc31
xdg-utils.noarch	1.1.3-5.fc31
xdotool.x86_64	1:3.20150503.1-9.fc31
xemacs-filesystem.noarch	21.5.34-34.20190323hgc0ed7ef9a5a1.fc31
xerces-c.x86_64	3.2.2-3.fc31
xerces-j2.noarch	2.11.0-34.module_f28+3872+5b76729e -modular
xfce4-panel.x86_64	4.14.1-1.fc31
xfconf.x86_64	4.14.1-1.fc31
xfig.x86_64	3.2.7b-1.fc31
xfsprogs.x86_64	5.1.0-2.fc31
xkeyboard-config.noarch	2.28-1.fc31
xml-common.noarch	0.6.3-53.fc31
xml-commons-apis.noarch	1.4.01-25.module_f28+3872+5b76729e -modular
xml-commons-resolver.noarch	1.2-26.module_f28+3872+5b76729e -modular
xmlgraphics-commons.noarch	2.3-1.module_f31+6793+1c93c38e

xmlrpc-c.x86_64	1.51.0-9.fc31
xmlrpc-c-client.x86_64	1.51.0-9.fc31
xmlrpc-client.noarch	1:3.1.3-22.mo-dule_f31+6793+1c93c38e
xmlrpc-common.noarch	1:3.1.3-22.mo-dule_f31+6793+1c93c38e
xmlrpc-server.noarch	1:3.1.3-22.mo-dule_f31+6793+1c93c38e
xmlsec1.x86_64	1.2.27-3.fc31
xmlsec1-nss.x86_64	1.2.27-3.fc31
xmlsec1-openssl.x86_64	1.2.27-3.fc31
xmms.x86_64	1:1.2.11-37.20071117cvs.fc31
xmms-libs.x86_64	1:1.2.11-37.20071117cvs.fc31
xorg-x11-apps.x86_64	7.7-26.fc31
xorg-x11-drv-evdev.x86_64	2.10.6-5.fc31
xorg-x11-drv-fbdev.x86_64	0.5.0-4.fc31
xorg-x11-drv-intel.x86_64	2.99.917-43.20180618.fc31
xorg-x11-drv-libinput.x86_64	0.29.0-1.fc31
xorg-x11-drv-nouveau.x86_64	1:1.0.15-8.fc31
xorg-x11-drv-qxl.x86_64	0.1.5-12.fc31
xorg-x11-drv-vesa.x86_64	2.4.0-7.fc31
xorg-x11-drv-vmware.x86_64	13.2.1-10.fc31
xorg-x11-drv-wacom.x86_64	0.37.0-2.fc31
xorg-x11-drv-wacom-serial-sup-port.x8	6_64
	0.37.0-2.fc31
xorg-x11-font-utils.x86_64	1:7.5-43.fc31
xorg-x11-fonts-ISO8859-1-100dpi.noar	ch
	7.5-23.fc31
xorg-x11-fonts-ISO8859-1-75dpi.noarc	h
	7.5-23.fc31
xorg-x11-fonts-Type1.noarch	7.5-23.fc31
xorg-x11-fonts-misc.noarch	7.5-23.fc31
xorg-x11-proto-devel.noarch	2019.1-2.fc31
xorg-x11-resutils.x86_64	7.7-4.fc31
xorg-x11-server-Xephyr.x86_64	1.20.6-1.fc31
xorg-x11-server-Xorg.x86_64	1.20.6-1.fc31
xorg-x11-server-Xvfb.x86_64	1.20.6-1.fc31
xorg-x11-server-Xway-land.x86_64	1.20.6-1.fc31
xorg-x11-server-com-mon.x86_64	1.20.6-1.fc31
xorg-x11-server-utils.x86_64	7.7-32.fc31

xorg-x11-utils.x86_64	7.5-33.fc31
xorg-x11-xauth.x86_64	1:1.1-2.fc31
xorg-x11-xbitmaps.noarch	1.1.1-17.fc31
xorg-x11-xinit.x86_64	1.4.0-5.fc31
xorg-x11-xkb-utils.x86_64	7.7-31.fc31
xplanet.x86_64	1.3.1-11.fc31
xpp3.noarch	1.1.4-20.c.module_f31+6793+1c93c38e
xsel.x86_64	1.2.0-25.fc31
xsssstate.x86_64	1.1-14.fc31
xterm.x86_64	351-1.fc31
xterm-resize.x86_64	351-1.fc31
xvidcore.x86_64	1.3.7-1.fc31 @rpm-fusion-free-updates
xz.x86_64	5.2.4-6.fc31
xz-devel.x86_64	5.2.4-6.fc31
xz-java.noarch	1.8-2.module_f28+3872+5b76729e -modular
xz-libs.x86_64	5.2.4-6.fc31
yajl.x86_64	2.1.0-13.fc31
yaml-cpp.x86_64	0.6.3-1.fc31
yelp.x86_64	2:3.34.0-1.fc31
yelp-libs.x86_64	2:3.34.0-1.fc31
yelp-xsl.noarch	3.34.2-1.fc31
ykpers.x86_64	1.20.0-3.fc31
yum.noarch	4.2.18-1.fc31
zbar.x86_64	0.23-2.fc31
zchunk-libs.x86_64	1.1.5-1.fc31
zeitgeist.x86_64	1.0.2-1.fc31
zeitgeist-libs.x86_64	1.0.2-1.fc31
zenity.x86_64	3.32.0-2.fc31
zeromq.x86_64	4.3.2-1.fc31
zimg.x86_64	2.9.2-1.fc31
zip.x86_64	3.0-25.fc31
zlib.x86_64	1.2.11-20.fc31
zlib-devel.x86_64	1.2.11-20.fc31
zsh.x86_64	5.7.1-4.fc31
zstd.x86_64	1.4.4-1.fc31
zvbi.x86_64	0.2.35-9.fc31
zziplib.x86_64	0.13.69-6.fc31

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