

IBM Thinkpad R40-2897 Debian 9, LXDE-Desktop Environment

Friedrich Hacker, 2018-03-10

friedrich.hacker(et)iln-greifswald.de

Laptop Modell: IBM Thinkpad R40-2897

CPU: Intel Pentium M 1.3GHz-1.5GHz, Memory: 512MB, Hard Drive: 60 GB 5400RPM

Image: Debian GNU/Linux 9.4.0 Stretch, firmware-9.4.0-i386-netinst.iso

Installation: graphical install, later choose LXDE-Desktop Enviroment

Content of sources.list:

```
# deb cdrom:[Debian GNU/Linux 9.4.0 _Stretch_ - Official i386 NETINST
20180310-11:55]/ stretch contrib main non-free

#deb cdrom:[Debian GNU/Linux 9.4.0 _Stretch_ - Official i386 NETINST
20180310-11:55]/ stretch contrib main non-free

deb http://ftp.de.debian.org/debian/ stretch main non-free contrib
deb-src http://ftp.de.debian.org/debian/ stretch main non-free contrib

deb http://security.debian.org/debian-security stretch/updates main contrib non-
free
deb-src http://security.debian.org/debian-security stretch/updates main contrib
non-free

# stretch-updates, previously known as 'volatile'
deb http://ftp.de.debian.org/debian/ stretch-updates main contrib non-free
deb-src http://ftp.de.debian.org/debian/ stretch-updates main contrib non-free

deb http://ftp.debian.org/debian stretch-backports main
```

Remarks:

- Hardware acceleration, WIFI and external monitor support failed after the standart installation, these problems all were solved after installing the following packages: firmware-amd-graphics, firmware-ipw2x00, firmware-linux-free, firmware-misc-nonfree, i965-va-driver, libdrm-intel1, libva-drm1, libva-wayland1, libva-x11-1, libva1, libxatracker2, mesa-va-drivers, mesa-vdpau-drivers (some of them may be installed via the standart installation, some may are not required)
- Use deb-src <http://ftp.de.debian.org/debian/> stretch-updates main contrib non-free and deb <http://ftp.debian.org/debian> stretch-backports main for playing encrypted DVD.
- for playing DVD add: libdv4, libdvbpsi10, libdvd-pkg, libdvdcss-dev, libdvdcss2, libdvdcss2-dbgSYM, libdvdnv4, libdvread4
- Internet browsing, LibreOffice, playing encrypted DVD via vlc works fine
- start up time to the look-in screen ca. 30 sec. (5 sec. grub window delay), additional 15 sec. from entering password

All installed packages (with some additional software like firefox, vlc, youtube-dl etc.):

```
acl
adduser
adwaita-icon-theme
alsa-utils
```

anacron
ant
ant-optional
apt
apt-listchanges
apt-utils
aspell
aspell-de
aspell-de-1901
aspell-de-alt
at-spi2-core
autoconf
automake
autopoint
autotools-dev
avahi-autoipd
avahi-daemon
base-files
base-passwd
bash
bash-completion
bc
bind9-host
binutils
bluetooth
bluez
bsdmainutils
bsdutils
build-essential
busybox
bzip2
ca-certificates
ca-certificates-java
clipit
coinor-libcbc3
coinor-libcgl1
coinor-libclp1
coinor-libcoinmp1v5
coinor-libcoinutils3v5
coinor-libosi1v5
colord
colord-data
console-setup
console-setup-linux
coreutils
cpio
cpp
cpp-6
cracklib-runtime
crda
cron
cups
cups-browsed
cups-bsd
cups-client
cups-common

cups-core-drivers
cups-daemon
cups-filters
cups-filters-core-drivers
cups-pk-helper
cups-ppdc
cups-server-common
dash
dbus
dbus-user-session
dbus-x11
dc
dconf-gsettings-backend
dconf-service
debconf
debconf-i18n
debhelper
debian-archive-keyring
debian-faq
debiutils
default-java-plugin
default-jre
default-jre-headless
deluge
deluge-common
deluge-gtk
desktop-base
desktop-file-utils
dh-autoreconf
dh-python
dh-strip-nondeterminism
dictionaries-common
diffutils
discover
discover-data
distro-info-data
dmidecode
dmsetup
doc-debian
docbook-xml
dosfstools
dpkg
dpkg-dev
dwz
e2fslibs
e2fsprogs
eject
emacs-common
enchant
espeak-ng-data
evince
evince-common
exfat-fuse
exfat-utils
fakeroot
ffmpeg

file
findutils
firefox-esr
firefox-esr-l10n-de
firmware-amd-graphics
firmware-ipw2x00
firmware-linux-free
firmware-misc-nonfree
fontconfig
fontconfig-config
fonts-crosextra-caladea
fonts-crosextra-carlito
fonts-dejavu
fonts-dejavu-core
fonts-dejavu-extra
fonts-droid-fallback
fonts-freefont-ttf
fonts-liberation
fonts-linuxlibertine
fonts-noto-mono
fonts-opensymbol
fonts-sil-gentium
fonts-sil-gentium-basic
foomatic-db-compressed-ppds
foomatic-db-engine
fuse
g++
g++-6
calculator
gcc
gcc-6
gcc-6-base
gcj-6-jre-lib
gconf-service
gconf2
gconf2-common
gcr
gdisk
geoip-database
gettext
gettext-base
ghostscript
glib1
gimp
gimp-data
gir1.2-atk-1.0
gir1.2-atspi-2.0
gir1.2-freedesktop
gir1.2-gdkpixbuf-2.0
gir1.2-glib-2.0
gir1.2-gnomekeyring-1.0
gir1.2-gtk-3.0
gir1.2-notify-0.7
gir1.2-packagekitglib-1.0
gir1.2-pango-1.0
gir1.2-wnck-3.0

gksu
glib-networking
glib-networking-common
glib-networking-services
gnome-accessibility-themes
gnome-desktop3-data
gnome-disk-utility
gnome-icon-theme
gnome-keyring
gnome-mime-data
gnome-orca
gnome-screenshot
gnome-system-tools
gnome-themes-standard
gnome-themes-standard-data
gnome-user-guide
gnupg
gnupg-agent
gnupg1
gnupg1-curl
gnupg1-l10n
gpgv
gpgv1
gpicview
grep
groff-base
grub-common
grub-pc
grub-pc-bin
grub2-common
gsettings-desktop-schemas
gsfonts
gststreamer1.0-plugins-base
gststreamer1.0-plugins-good
gststreamer1.0-pulseaudio
gststreamer1.0-x
gtk-update-icon-cache
gtk2-engines
gtk2-engines-pixbuf
gucharmap
gvfs
gvfs-backends
gvfs-common
gvfs-daemons
gvfs-fuse
gvfs-libs
gzip
hdparm
hicolor-icon-theme
hostname
hp-ppd
hplip
hplip-data
hunspell-de-at
hunspell-de-ch
hunspell-de-de

hunspell-en-us
hyphen-de
hyphen-en-us
i965-va-driver
icedtea-8-plugin
icedtea-netx
icedtea-netx-common
ifupdown
imagemagick
imagemagick-6-common
imagemagick-6.q16
ingerman
init
init-system-helpers
initramfs-tools
initramfs-tools-core
installation-report
intltool-debian
iproute2
iptables
iputils-ping
isc-dhcp-client
isc-dhcp-common
iso-codes
ispell
iswiss
iw
java-common
kbd
keyboard-configuration
klibc-utils
kmod
krb5-locales
laptop-detect
leafpad
less
liba52-0.7.4
libaa1
libaacs0
libabw-0.1-1
libacl1
libalgorithm-diff-perl
libalgorithm-diff-xs-perl
libalgorithm-merge-perl
libamd2
libao-common
libao4
libapache-poi-java
libapache-pom-java
libapparmor1
libappindicator1
libapt-inst2.0
libapt-pkg5.0
libarchive-zip-perl
libarchive13
libart-2.0-2

libasan3
libasound2
libasound2-data
libasound2-plugins
libaspell15
libass5
libassuan0
libasyncns0
libatasmart4
libatk-adaptor
libatk-bridge2.0-0
libatk-wrapper-java
libatk-wrapper-java-jni
libatk1.0-0
libatk1.0-data
libatkmm-1.6-1v5
libatomic1
libatspi2.0-0
libattr1
libaudio2
libaudit-common
libaudit1
libauthen-sasl-perl
libavahi-client3
libavahi-common-data
libavahi-common3
libavahi-core7
libavahi-glib1
libavc1394-0
libavcodec-extra
libavcodec-extra57
libavdevice57
libavfilter6
libavformat57
libavresample3
libavutil55
libbabl-0.1-0
libbase-java
libbasicusageenvironment1
libbcmail-java
libbcpkix-java
libbcprov-java
libbdplus0
libbind9-140
libblas-common
libblas3
libblkid1
libbluetooth3
libbluray1
libbonobo2-0
libbonobo2-common
libbonoboui2-0
libbonoboui2-common
libboost-chrono1.62.0
libboost-date-time1.62.0
libboost-filesystem1.62.0

libboost-iostreams1.62.0
libboost-python1.62.0
libboost-random1.62.0
libboost-system1.62.0
libbrlapi0.6
libbs2b0
libbsd0
libbsh-java
libbz2-1.0
libc-bin
libc-dev-bin
libc-l10n
libc6
libc6-dev
libcaca0
libcairo-gobject2
libcairo-perl
libcairo2
libcairomm-1.0-1v5
libcamd2
libcanberra-gtk3-0
libcanberra-gtk3-module
libcanberra0
libcap-ng0
libcap2
libcap2-bin
libcc1-0
libccolamd2
libcddb2
libcdio-cdda1
libcdio-paranoia1
libcdio13
libcdparanoia0
libcdr-0.1-1
libcholmod3
libchromaprint1
libcilkrts5
libclass-isa-perl
libclucene-contribs1v5
libclucene-core1v5
libcmis-0.5-5v5
libcolamd2
libcolord2
libcolorhug2
libcomerr2
libcommons-codec-java
libcommons-collections3-java
libcommons-logging-java
libcommons-parent-java
libcrack2
libcroco3
libcryptsetup4
libcrystalhd3
libcups2
libcups-cgi1
libcupsfilters1

libcupsimage2
libcupsmime1
libcupsppdc1
libcurl3-gnutls
libdaemon0
libdatrie1
libdb5.3
libdbus-1-3
libdbus-glib-1-2
libdbusmenu-glib4
libdbusmenu-gtk4
libdc1394-22
libdca0
libdconf1
libdebconfclient0
libdevmapper1.02.1
libdiscover2
libdjvulibre-text
libdjvulibre21
libdns-export162
libdns162
libdom4j-java
libdotconf0
libdouble-conversion1
libdpkg-perl
libdrm-amdgpu1
libdrm-intel1
libdrm-nouveau2
libdrm-radeon1
libdrm2
libdv4
libdvbpsi10
libdvd-pkg
libdvdcss-dev
libdvdcss2
libdvdcss2-dbg
libdvdnav4
libdvdread4
libe-book-0.1-1
libebml4v5
libebur128-1
libedit2
libegl1-mesa
libehcache-java
libelf1
libenchant1c2a
libencode-locale-perl
libeot0
libepoxy0
libept1.5.0
libespeak-ng1
libestr0
libetonyek-0.1-1
libevdev2
libevdocument3-4
libevent-2.0-5

libevview3-3
libexif12
libexpat1
libexttextcat-2.0-0
libexttextcat-data
libfaad2
libfakeroot
libfastjson4
libfdisk1
libffi6
libfftw3-double3
libfftw3-single3
libfile-basedir-perl
libfile-copy-recursive-perl
libfile-desktopentry-perl
libfile-fcntllock-perl
libfile-listing-perl
libfile-mimeinfo-perl
libfile-stripnondeterminism-perl
libflac8
libflite1
libfluidsynth1
libflute-java
libfm-data
libfm-extra4
libfm-gtk-data
libfm-gtk4
libfm-modules
libfm4
libfont-afm-perl
libfontconfig1
libfontembed1
libfontenc1
libfonts-java
libformula-java
libfreehand-0.1-1
libfreerdp-cache1.1
libfreerdp-client1.1
libfreerdp-codec1.1
libfreerdp-common1.1.0
libfreerdp-core1.1
libfreerdp-crypto1.1
libfreerdp-gdi1.1
libfreerdp-locale1.1
libfreerdp-primitives1.1
libfreerdp-utils1.1
libfreetype6
libfribidi0
libfuse2
libgail-common
libgail18
libgbm1
libgcc-6-dev
libgcc1
libgcj-bc
libgcj-common

libgcj17
libgck-1-0
libgconf-2-4
libgcr-3-common
libgcr-base-3-1
libgcr-ui-3-1
libgcrui20
libgd3
libgdata-common
libgdata22
libgdbm3
libgdk-pixbuf2.0-0
libgdk-pixbuf2.0-common
libgegl-0.3-0
libgeoip1
libgfortran3
libgif7
libgimp2.0
libgirepository-1.0-1
libgksu2-0
libgl1-mesa-dri
libgl1-mesa-glx
libglade2-0
libglapi-mesa
libgles2-mesa
libglew2.0
libglib-perl
libglib2.0-0
libglib2.0-bin
libglib2.0-data
libglibmm-2.4-1v5
libgltf-0.0-0v5
libglu1-mesa
libgme0
libgmp10
libgnome-2-0
libgnome-desktop-3-12
libgnome-keyring-common
libgnome-keyring0
libgnome2-common
libgnomecanvas2-0
libgnomecanvas2-common
libgnomeui-0
libgnomeui-common
libgnomevfs2-0
libgnomevfs2-common
libgnomevfs2-extra
libgnutls30
libgoa-1.0-0b
libgoa-1.0-common
libgomp1
libgpg-error0
libgphoto2-6
libgphoto2-l10n
libgphoto2-port12
libgpm2

libgraphite2-3
libgroupsock8
libgs9
libgs9-common
libgsm1
libgssapi-krb5-2
libgstreamer-plugins-bad1.0-0
libgstreamer-plugins-base1.0-0
libgstreamer1.0-0
libgtk-3-0
libgtk-3-bin
libgtk-3-common
libgtk2-perl
libgtk2.0-0
libgtk2.0-bin
libgtk2.0-common
libgtkmm-3.0-1v5
libgtop-2.0-10
libgtop2-common
libgucharmap-2-90-7
libgudev-1.0-0
libgusb2
libgutenprint2
libgxps2
libharfbuzz-icu0
libharfbuzz0b
libhogweed4
libhpmud0
libhsqldb1.8.0-java
libhtml-form-perl
libhtml-format-perl
libhtml-parser-perl
libhtml-tagset-perl
libhtml-tree-perl
libhttp-cookies-perl
libhttp-daemon-perl
libhttp-date-perl
libhttp-message-perl
libhttp-negotiate-perl
libhunspell-1.4-0
libhyphen0
libice6
libicu57
libid3tag0
libidn11
libidn2-0
libiec61883-0
libieee1284-3
libijs-0.35
libilmbase12
libimlib2
libimobiledevice6
libindicator7
libinput-bin
libinput10
libio-html-perl

libio-socket-ssl-perl
libip4tc0
libip6tc0
libipc-system-simple-perl
libiptc0
libisc-export160
libisc160
libisccc140
libiscfg140
libisl15
libisorelax-java
libitext-java
libitm1
libiw30
libjack-jackd2-0
libjavascriptcoregtk-4.0-18
libjaxen-java
libjbig0
libjbig2dec0
libjcommon-java
libjdom1-java
libjim0.76
libjpeg-turbo-progs
libjpeg62-turbo
libjson-glib-1.0-0
libjson-glib-1.0-common
libjsoncpp1
libjxr-tools
libjxr0
libk5crypto3
libkate1
libkeybinder0
libkeyutils1
libkf5windowsystem-data
libkf5windowsystem5
libklibc
libkmod2
libkpathsea6
libkrb5-3
libkrb5support0
libksba8
liblangtag-common
liblangtag1
liblapack3
liblayout-java
liblcms2-2
liblcms2-utils
libldap-2.4-2
libldap-common
libldb1
liblightdm-gobject-1-0
liblirc-client0
liblivemedia57
libllvm3.9
libloader-java
liblocale-gettext-perl

libblockfile-bin
liblog4j1.2-java
liblogging-stdlog0
liblognorm5
liblouis-data
liblouis12
liblouisutdml-bin
liblouisutdml-data
liblouisutdml7
liblqr-1-0
libltdl-dev
libltdl7
liblua5.2-0
liblwp-mediatypes-perl
liblwp-protocol-https-perl
liblwres141
liblxqt-l10n
liblxqt0
liblz4-1
liblzma5
liblzo2-2
libmad0
libmagic-mgc
libmagic1
libmagickcore-6.q16-3
libmagickcore-6.q16-3-extra
libmagickwand-6.q16-3
libmail-java
libmail-sendmail-perl
libmailtools-perl
libmatroska6v5
libmenu-cache-bin
libmenu-cache3
libmetis5
libmhash2
libmicrodns0
libmikmod3
libmng1
libmnl0
libmount1
libmp3lame0
libmpc3
libmpcdec6
libmpdec2
libmpeg2-4
libmpfr4
libmpeg123-0
libmpx2
libmspub-0.1-1
libmsv-java
libmtdev1
libmtp-common
libmtp-runtime
libmtp9
libmwaw-0.3-3
libmythes-1.2-0

libnautilus-extension1a
libncurses5
libncursesw5
libneon27-gnutls
libnet-dbus-perl
libnet-http-perl
libnet-smtp-ssl-perl
libnet-ssleay-perl
libnetfilter-conntrack3
libnetpbm10
libnettle6
libnewt0.52
libnfnetworklink0
libnfs8
libnghttp2-14
libnl-3-200
libnl-genl-3-200
libnotify4
libnpth0
libnspr4
libnss-mdns
libnss3
libntfs-3g871
libnuma1
liboauth0
libobrender32v5
libobt2v5
libodfgen-0.1-1
libogg0
liboobs-1-5
libopenal-data
libopenal1
libopencore-amrnb0
libopencore-amrwb0
libopencv-core2.4v5
libopencv-imgproc2.4v5
libopenexr22
libopenjp2-7
libopenmpt-modplug1
libopenmpt0
libopus0
liborbit-2-0
liborc-0.4-0
liborcus-0.11-0
libp11-kit0
libpackagekit-glib2-18
libpagemaker-0.0-0
libpam-cap
libpam-gnome-keyring
libpam-modules
libpam-modules-bin
libpam-runtime
libpam-systemd
libpam0g
libpango-1.0-0
libpango-perl

libpangocairo-1.0-0
libpangoft2-1.0-0
libpangomm-1.4-1v5
libpangoft-1.0-0
libpaper-utils
libpaper1
libparted2
libpcaudio0
libpci3
libpciaccess0
libpcre16-3
libpcre2-8-0
libpcre3
libpcsclite1
libpentaho-reporting-flow-engine-java
libperl5.24
libpgm-5.2-0
libpipeline1
libpixie-java
libpixmap-1-0
libplist3
libpng16-16
libpolkit-agent-1-0
libpolkit-backend-1-0
libpolkit-gobject-1-0
libpolkit-qt5-1-1
libpoppler-glib8
libpoppler64
libpopt0
libportmidi0
libpostproc54
libpq5
libprocps6
libprotobuf-lite10
libproxy-tools
libproxy1v5
libpsl5
libpulse-mainloop-glib0
libpulse0
libpulsedsp
libpwquality-common
libpwquality1
libpython-stdlib
libpython2.7
libpython2.7-minimal
libpython2.7-stdlib
libpython3-stdlib
libpython3.5
libpython3.5-minimal
libpython3.5-stdlib
libqpdf17
libqt5core5a
libqt5dbus5
libqt5gui5
libqt5network5
libqt5script5

libqt5svg5
libqt5widgets5
libqt5x11extras5
libqt5xdg2
libqt5xdgiconloader2
libqt5xml5
libquadmath0
libraptor2-0
librarian0
librasqal3
libraw1394-11
libraw15
librdf0
libreadline7
librelaxng-datatype-java
libreoffice
libreoffice-avmedia-backend-gstreamer
libreoffice-base
libreoffice-base-core
libreoffice-base-drivers
libreoffice-calc
libreoffice-common
libreoffice-core
libreoffice-draw
libreoffice-gtk2
libreoffice-help-de
libreoffice-help-en-us
libreoffice-impress
libreoffice-java-common
libreoffice-l10n-de
libreoffice-librelogo
libreoffice-math
libreoffice-nlpsolver
libreoffice-ogltrans
libreoffice-pdfimport
libreoffice-report-builder
libreoffice-report-builder-bin
libreoffice-script-provider-bsh
libreoffice-script-provider-js
libreoffice-script-provider-python
libreoffice-sdbc-hsqldb
libreoffice-sdbc-postgresql
libreoffice-style-galaxy
libreoffice-style-tango
libreoffice-wiki-publisher
libreoffice-writer
librepository-java
libresid-builder0c2a
librest-0.7-0
librevenge-0.0-0
librsvg2-2
librsvg2-common
librtmp1
librubberband2
libsac-java
libsac-java-gcj

libsamplerate0
libsane
libsane-common
libsane-extras
libsane-extras-common
libsane-hpaio
libsasl2-2
libsasl2-modules
libsasl2-modules-db
libsaxonhe-java
libsdl-image1.2
libsdl-mixer1.2
libsdl-ttf2.0-0
libsdl1.2debian
libsdl2-2.0-0
libseccomp2
libsecret-1-0
libsecret-common
libselinux1
libsemanage-common
libsemanage1
libsensors4
libsepol1
libserializer-java
libservlet3.1-java
libshine3
libshout3
libsidplay2
libsigc++-2.0-0v5
libsigsegv2
libslang2
libsm6
libsmartcols1
lib smbclient
libsmpeg0
libsnappy1v5
libsndfile1
libsndio6.1
libsnmp-base
libsnmp30
libsodium18
libsonic0
libsoup-gnome2.4-1
libsoup2.4-1
libsoxr0
libspectre1
libspeechd2
libspeex1
libspeexdsp1
libsqlite3-0
libss2
libssh-gcrypt-4
libssh2-1
libssl1.0.2
libssl1.1
libstartup-notification0

libstdc++-6-dev
libstdc++6
libsuitesparseconfig4
libswitch-perl
libswresample2
libswscale4
libsys-hostname-long-perl
libsystemd0
libtag1v5
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