

Beyond Linux® From Scratch (systemd Edition) - Version 12.1	
Chapter 2. Important Information	
	/
BLFS Systemd Units	Libraries: Static or shared?

Libtool (.la)

가 .la

```

LFS BLFS libtool Unix
Linux AIX, Solaris, IRIX, HP-UX, Cygwin Linux
Linux libtool Linux ELF(
가 가 ) 가
LFS BLFS libtool .pc . pkg-config libtool
-static -libs 가
libtool libtool 가 ".la" pkg-config
libtool .libtool
.la , .la 가
가 가 .la .la 가
.la . ImageMagick-7.1.1-28 libtool
lt_dlopen .la
/var/local/la-files . pkg-config (.pc) .la 가

```

```

cat > /usr/sbin/remove-la-files.sh << "EOF"
#!/bin/bash

# /usr/sbin/remove-la-files.sh
# Written for Beyond Linux From Scratch
# by Bruce Dubbs <bdubbs@linuxfromscratch.org>

```

```
# Make sure we are running with root privs
if test "${EUID}" -ne 0; then
    echo "Error: $(basename ${0}) must be run as the root user! Exiting..."
    exit 1
fi

# Make sure PKG_CONFIG_PATH is set if discarded by sudo
source /etc/profile

OLD_LA_DIR=/var/local/la-files

mkdir -p $OLD_LA_DIR

# Only search directories in /opt, but not symlinks to directories
OPTDIRS=$(find /opt -mindepth 1 -maxdepth 1 -type d)

# Move any found .la files to a directory out of the way
find /usr/lib $OPTDIRS -name "*.la" ! -path "/usr/lib/ImageMagick*" \
    -exec mv -fv {} $OLD_LA_DIR \;
#####

# Fix any .pc files that may have .la references

STD_PC_PATH='/usr/lib/pkgconfig
             /usr/share/pkgconfig
             /usr/local/lib/pkgconfig
             /usr/local/share/pkgconfig'

# For each directory that can have .pc files
for d in $(echo $PKG_CONFIG_PATH | tr : ' '); do

    # For each pc file
    for pc in $d/*.pc ; do
        if [ $pc == "$d/*.pc" ]; then continue; fi

        # Check each word in a line with a .la reference
        for word in $(grep '\.la' $pc); do
            if $(echo $word | grep -q '.la$' ); then
                mkdir -p $d/la-backup
                cp -fv $pc $d/la-backup

                basename=$(basename $word )
                libref=$(echo $basename|sed -e 's/^\lib/-l/' -e 's/\.la$//')

                # Fix the .pc file
                sed -i "s:$word:$libref:" $pc
            fi
        done
    done
done
```

EOF

```
chmod +x /usr/sbin/remove-la-files.sh
```

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Last update: **2024/06/10 15:23**

