

Linux From Scratch - Version 12.4

LFS/BLFS

1. `/etc/fstab`, LFS, tar, pv, xz

```
export LFS=/mnt/lfs # LFS "/"
export LFS_DEPOT=/mnt/nfs/warehouse/lfs #
mountpoint -q $LFS || sudo mount $LFS #

mountpoint -q $LFS_DEPOT #
for prog in tar xz pv; do # tar, xz, pv

    if command -v "$prog" >/dev/null 2>&1; then
        $prog --version | head -n 1
    else
        echo "$prog is missing"
    fi
done
```

2. Backup

```
cd $LFS
sudo -s
tar -cp --numeric-owner \
    --exclude='proc' --exclude='sys' --exclude='dev' --exclude='run' .
| \
    xz -9 --threads=$(nproc) --memory=80% -vv >
"${LFS_DEPOT}/lfs+blfs-12.4.tar.xz"
```

3. Restore

```
export LFS=/mnt/lfs # LFS "/"
export WAREHOUSE=/mnt/nfs/warehouse/lfs #
cd $LFS
sudo tar -xpvJf ${WAREHOUSE}/lfs+blfs-12.4.tar.xz --numeric-owner .
sudo mkdir -pv {dev,proc,sys,run}
```

1. `/etc/fstab`

tar

```
# 1. ( -> )
```

```
TOTAL_FILES=$(tar -tvf "$TAR_FILE" | wc -l | awk '{print $1}')

# 2. 1% ( )
# 100 1
INTERVAL=$(( TOTAL_FILES / 100 ))
if [ "$INTERVAL" -le 0 ]; then INTERVAL=1; fi

# 3. : $TOTAL_FILES (1% $INTERVAL )"

# 4. (pv -s 100 )
# tar가 INTERVAL (.) , pv가 100
tar -df "$TAR_FILE" --checkpoint=$INTERVAL --checkpoint-action=dot | \
    pv -p -l -s 100 > /dev/null

echo " ."
```

tar 가 ()

```
# 1. ($LFS)
TEST_DIR="${LFS}/.bench_tmp"
mkdir -p "$TEST_DIR"

# 2. (I/O )
dd if=/dev/zero of="${TEST_DIR}/bench_file" bs=1M count=100 conv=fdatasync
2>/dev/null

# 3. / ( + CPU + )
START_TIME=$(date +%s.%N)
xz -9 --threads=$(nproc) "${TEST_DIR}/bench_file"
END_TIME=$(date +%s.%N)

# 4. ( )
SEC_PER_100MB=$(echo "$END_TIME - $START_TIME" | bc)
rm -rf "$TEST_DIR"
```

, , prefix_

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