dm-linear

Device-Mapper's "linear" target maps a linear range of the Device-Mapper device onto a linear range of another device. This is the basic building block of logical volume managers.

Example scripts

```
#!/bin/sh
# Create an identity mapping for a device
echo "0 `blockdev --getsz $1` linear $1 0" | dmsetup create identity
#!/bin/sh
# Join 2 devices together
size1=`blockdev --getsz $1`
size2=`blockdev --getsz $2`
echo "0 $sizel linear $1 0
size1  inear 0" \mid dmsetup create joined
#!/usr/bin/perl -w
# Split a device into 4M chunks and then join them together in reverse order.
my $name = "reverse";
my $extent size = 4 * 1024 * 2;
my dev = \overline{ARGV[0]};
my $table = "";
my scount = 0;
if (!defined($dev)) {
        die("Please specify a device.\n");
my $dev size = `blockdev --getsz $dev`;
my $extents = int($dev size / $extent size) -
              (($dev_size % $extent_size) ? 1 : 0);
while ($extents > 0) {
        my $this_start = $count * $extent_size;
        $extents--;
        $count++;
        my $this_offset = $extents * $extent_size;
        $table .= "$this_start $extent_size linear $dev $this_offset\n";
`echo \"$table\" | dmsetup create $name`;
```