dm-stripe

Device-Mapper's "striped" target is used to create a striped (i.e. RAID-0) device across one or more underlying devices. Data is written in "chunks", with consecutive chunks rotating among the underlying devices. This can potentially provide improved I/O throughput by utilizing several physical devices in parallel.

One or more underlying devices can be specified. The striped device size must be a multiple of the chunk size multiplied by the number of underlying devices.

Example scripts

```
#!/usr/bin/perl -w
\sharp Create a striped device across any number of underlying devices. The device
# will be called "stripe dev" and have a chunk-size of 128k.
my $chunk size = 128 * 2;
my $dev name = "stripe dev";
my $num_devs = @ARGV;
my @devs = @ARGV;
my ($min_dev_size, $stripe_dev_size, $i);
if (!$num devs) {
        die ("Specify at least one device\n");
}
$min dev size = `blockdev --getsz $devs[0]`;
for (\$i = 1; \$i < \$num devs; \$i++) {
        my $this size = `blockdev --getsz $devs[$i]`;
        $min_dev_size = ($min_dev_size < $this_size) ?</pre>
                        $min_dev_size : $this_size;
$stripe dev size = $min dev size * $num devs;
$stripe dev size -= $stripe dev size % ($chunk size * $num devs);
$table = "0 $stripe dev size striped $num devs $chunk size";
for ($i = 0; $i < $num_devs; $i++) {
        $table .= " $devs[$i] 0";
`echo $table | dmsetup create $dev_name`;
```