

Proposal

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1 Overview

An improved version of 'cp -r' is proposed. This version will take advantage of Linux's asynchronous IO interfaces to create opportunities for parallelism, and will minimize the time spent blocking on disk IO by leveraging fallocate and readahead.

2 Key features

3 Timeline

This project will follow a weekly timeline.

10/13	Start
10/20	Naive implementation complete
10/27	MPMC complete
11/03	readahead complete
11/10	fallocate complete
11/17	Testing/optimization
11/24	Benchmarking
12/01	Complete

References