

Title: File Allocation System with minimized reallocation

Summary:

There are many file systems existing in the market. Those file systems allocate files with the list of clusters or extents and when user repeat creating and deleting files, many files become allocated with fragmentation and the performance of the file system degrade because of the wasteful seeks needed to access to the fragmented sections of the files in sequential access.

Currently to resolve the problem, defragmentation tool is used to reallocate the files in continuous area. Unfortunately defragmentation tool takes long time to complete and normally user can do nothing until the process complete. So, the file allocation system minimizing the fragmentation is requested in the market.

CoPo2 (Concatenation of Power of 2) allocation system is a solution for the problem.

OITDA decided CoPo2 to be applied to UDF and to be standardized.