# Name

idd2imd -- convert KryoFlux extracts of M2FM disks to imd disk image files

## Synopsis

idd2imd [OPTIONS] [FILE]...

## Description

idd2imd processes raw flux transition files from an ISIS M2FM encoded SD DD disk, as extracted by the KryoFlux forensic floppy controller.

The application can process files in one of two ways

1. An individual KryoFlux file with a .raw extension. In this case the file is checked and using the options below information can be extracted.
2. A zip file containing KryoFlux files for each of the tracks on a disk. The individual files within the zip file should end in tt.0.raw where tt is a two digit track number from 0-76.
   In addition to processing each of the files, an imd disk image file will be created named after the zip file with the .zip replaced with .imd.

## Options

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|---|---|
| **-d0** | Show default diagnostic information. The **-d0** is optional<br>• Shows recovered sectors and missing data sector information<br>• Non critical flux data stream errors<br>• Errors which cause the track to be skipped<br>• Deleted data marker |
| **-d, -d1** | As **-d0** plus<br>• File name being processed<br>• Invalid flux data stream errors<br>• Warning when there are more than 3 consecutive physical sectors missing<br>• Corrupt id or data blocks where a good copy has not yet been seen<br>• Information about missing id and data blocks after each track copy scanned |
| **-d2** | As **-d1** plus<br>• Information from the KryoFlux out of band data blocks<br>• Detection of Index Address Marker<br>• Information about valid id and data blocks e.g. track and sector<br>• Count of corrupt id or data blocks scanned until all are found or data runs out |
| **-d3** | As **-d2** plus<br>• Dump of id and data blocks, excluding the address marker but including the crc bytes. |
| **-d4** | As **-d3** plus<br>Dump of bit stream data where<br>**0, 1** are normal bits<br>**M** is a marker bit 0<br>**S** indicates a resync was required to align to 1 bit<br>**E** is an end marker i.e. index hole seen¶<br>**B** is a bad transition marker<br>It is recommended that this is only ever used for individual **.raw** files. |

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| **-h, -h*n*** | Display a histogram of flux transitions.<br>When n is specified then this is the number of lines the display is scaled to, default is 10.<br>In the display # represents a full block and + represents a half full block. |
| **-s** | Display sector mapping, on two lines per track.<br>The first line has the sector ids, followed optionally by **'r'** if the sector Id has been recovered. Missing ids are shown as **'--'**.<br>The second line shows a **'D'** where the data sector is available and **'X'** where it is missing. |

Note options can also be in uppercase

## See Also

Information on KryoFlux can be found at https://www.kryoflux.com

Information on imd disk images can be found at http://www.classiccmp.org/dunfield/img/index.htm

Source for idd2idm can be found at https://github.com/ogdenpm/intel80tools/tree/master/toolsrc

Prebuilt executables can be found at https://github.com/ogdenpm/intel80tools/tree/master/tools and https://drive.google.com/drive/folders/1Uer6xtjLkoRYLuV_8tBhX1DZlR5IhCDO